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BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS

SIERRA CLUB, PRAIRIE RIVERS NETWORK, and NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE,	)	
Complainants,	)	**PCB 18-11** **(Enforcement – Water)**
v.	)	
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES d/b/a CITY WATER, LIGHT and POWER,	)	
Respondent.	)	

NOTICE OF ELECTRONIC FILING

To: Don Brown, Clerk of the Board
List Illinois Pollution Control Board
100 W. Randolph Street, Suite 11-500
Chicago, IL 60601

Attached Service

PLEASE TAKE NOTICE that I have, on January 29, 2020, filed the following certificate of service regarding *Complainants' Motion for Partial Summary Judgment* and *Memorandum of Law in Support of Complainants' Motion for Partial Summary Judgment.*

Dated: January 29, 2020

Respectfully submitted,



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COMPLAINANTS' MOTION FOR PARTIAL SUMMARY JUDGMENT

1. Pursuant to 35 Ill. Admin. § 101.516 and as supported by the accompanying Memorandum of Law, Complainants Sierra Club, Inc., Prairies Rivers Network, and National Association for the Advancement of Colored People (collectively, "Complainants") move for partial summary judgment and ask that the Illinois Pollution Control Board ("Board"): (i) declare City Water, Light & Power ("CWLP") liable for all violations set forth in Complainants' First Amended Complaint[1]; (ii) pursuant to 415 ILCS 5/33, order CWLP to cease and desist from allowing water pollution by means of measures to be determined following a hearing on the portions of the claims not included in this Motion for Partial Summary Judgment ("Motion"); and (iii) following that hearing, impose appropriate civil penalties pursuant to 415 ILCS 5/42.

[1] Complainants' First Amended Complaint was filed with the Board on April 18, 2019, as an attachment to Complainants' Unopposed Motion for Leave to File and the Amended Complaint. The Board granted Complainants' Unopposed Motion on April 22, 2019, accepting the First Amended Complaint for hearing.

2. This Motion seeks summary judgment solely with regard to liability for violations of Section 12(a) of the Illinois Environmental Protection Act ("the Act") and implementing regulations that stem from CWLP's operation of the ash impoundments at the CWLP Site, as defined in the accompanying Memorandum of Law In Support of Complainants' Motion for Partial Summary Judgment. In limiting this request for summary judgment to the requested liability finding, Complainants do not concede that any particular remedy will be sufficient to remediate the violations presented in this Motion.

3. As grounds for the Motion and as discussed in the accompanying Memorandum of Law, Complainants state as follows: a) that they have associational standing to seek the Board's review of CWLP's compliance with the Illinois Environmental Protection Act (the "Act"), 415 ILCS 5/1 et seq., pursuant to Section 31(d)(1) of the Act and Article XI of the Illinois Constitution; b) that the undisputed facts demonstrate CWLP had and has control over the premises where pollutants from coal ash were and are leaching into the groundwater; c) that the undisputed facts demonstrate CWLP has not taken the necessary precautions to prevent contamination leaching into the groundwater from that ash; and (d) that the undisputed facts show that this contamination has caused numerous exceedances of Illinois Class I, or in the alternative Class II, Groundwater Standards laid out at 35 Ill. Admin Code §§ 620.410 and 620.420 respectively.

4. As a result, Complainants seek summary judgment from the Board that CWLP has violated the Act's and implementing regulations' prohibitions on allowing groundwater pollution at the CWLP Site, as detailed in Complainants' First Amended Complaint.

WHEREFORE the Board should:

a) Rule that CWLP has violated the Act on the single count in the First Amended Complaint; and

b) Establish a limited hearing process to determine the appropriate amount of civil penalties that CWLP must pay and the mechanisms by which CWLP must cease and desist its violations of the Act and implementing regulations.

Dated: January 29, 2020

Respectfully submitted,

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Attorneys for Sierra Club, Prairie Rivers Network, and National Association for the Advancement of Colored People

CERTIFICATE OF SERVICE

I, Greg Wannier, an attorney, certify that I have served electronically upon the Clerk and by email upon the individuals named on the attached Service List a true and correct copy of the **Complainants' Motion for Partial Summary Judgment** and **Memorandum of Law in Support of Complainants' Motion for Partial Summary Judgment**, before 5 p.m. Central Time on January 29, 2020 to the email addresses of the parties on the attached Service List.

Respectfully Submitted,



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MEMORANDUM OF LAW IN SUPPORT OF COMPLAINANTS' MOTION FOR PARTIAL SUMMARY JUDGMENT

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I. INTRODUCTION

Complainants Sierra Club, Prairie Rivers Network, and National Association for Advancement of Colored People (collectively, "Complainants") by and through their counsel, hereby submit this memorandum of law in support of its Motion for Partial Summary Judgment ("Motion"). There is no genuine issue of material fact as to the liability of Respondent City of Springfield, Office of Public Utilities, d/b/a City Water, Light & Power ("CWLP"), and Complainants are entitled to partial judgment as a matter of law as to all Counts of their Amended Complaint.

II. SUMMARY OF THE ARGUMENT

Summary judgment is appropriate where there is no genuine issue of material fact and the movant is entitled to judgment as a matter of law. Here, as discussed in further detail below, the material undisputed facts clearly indicate that CWLP is in violation of Illinois Law with respect to its management of the coal ash impoundments serving Dallman Station and the former Lakeside Station. Specifically:

- CWLP operates Dallman Station and operated Lakeside Station before its retirement; it continues to operate the on-site coal ash impoundments at the CWLP Site, which contain coal ash from operation of Dallman and Lakeside Stations.
- By its employees' and consultants' own admission, CWLP has caused or allowed the discharge of ash constituents from the ash impoundments at the CWLP Site into nearby groundwater; despite being aware of the problem and potential solutions to the problem, Respondent did not take any precautions, let alone "extensive" precautions, to alleviate this contamination.

- CWLP's own monitoring of the nearby groundwater shows that groundwater was contaminated with coal ash constituents, including boron, in excess of applicable state groundwater quality standards. CWLP's employees and consultants have confirmed that these exceedances can almost certainly be attributed to leakage from the ash impoundments at the CWLP Site.

Accordingly, CWLP has violated the Act's and implementing regulations' prohibitions on allowing groundwater pollution at the CWLP Site on the numerous occasions set forth in the First Amended Complaint. Therefore, Complainants respectfully request that the Board grant Complainants' Motion for Partial Summary Judgment.

III. STATEMENT OF UNDISPUTED FACTS

A. General Background

1. City of Springfield, Office of Public Utilities, d/b/a City Water Light and Power ("CWLP") operated the Lakeside Power Station ("Lakeside Station") and currently operates the Dallman Power Station ("Dallman Station"), both coal-burning power stations. Resp't Answer to Amended Compl. ¶ 1 (July 5, 2019) ("Respondent admits that it currently operates the coal-burning Dallman Station and operated the Lakeside Station until 2009.").

2. CWLP has two CCR surface impoundments, the Lakeside Ash Pond and Dallman Ash Pond. Resp't Answer to Amended Compl. ¶ 2; Deposition Transcript of Eric Staley at 9:17-23 (Jan. 23, 2019) ("Staley Dep. Tr.") (excerpts provided as Attachment A). Respondent also operates a landfill for coal combustion residuals and a clarification pond. Resp't Answer to Amended Compl. ¶ 2; Deposition Transcript of Patrick J. Becker at 28:3-7 (Nov. 29, 2018) ("Becker Dep. Tr.") (excerpts provided as Attachment B) (citing Ex. 4.01[1] at 00182, IEPA Map

[1] All references to previously-numbered exhibits in this brief refer to discovery provided by Respondent and exhibit numbers agreed upon by both parties in depositions.

of CWLP Lakeside and Dallman Ponds (Mar. 2014) (provided as Attachment C)). The clarification pond is part of the treatment process with the Lakeside and Dallman Ash Ponds and uses a polymer to settle trace solids out of the water at the clarification pond. Becker Dep. Tr. at 28:13-22. The clarification pond is unlined, contains trace amounts of coal ash, and discharges via Outfall 004 to Sugar Creek. *Id.* at 28:23-29:8. Collectively, these ponds and the landfill are located in an area northeast of the Dallman and Lakeside Stations (the "CWLP Site"). Becker Dep. Tr. at 27:8-23, 28:3-7, 29:13-19 (citing Ex. 4.01 at 00182).

3. Dallman Ash Pond has been receiving ash since Dallman Unit 33 was built in the mid- to late seventies. Becker Dep. Tr. at 39:7-14. Dallman Ash Pond is still active and receives coal ash from Dallman Units 31, 32, and 33. *Id.* at 34:12-19, 35:8-16, 39:2-4. All of the ash from Units 31, 32, and 33 is placed in Dallman Ash Pond. *See* Deposition Transcript of William Antonacci at 66:5-67:6 (Jan. 16, 2019) ("Antonacci Dep. Tr.") (excerpts provided as Attachment D). Ash is sluiced via two active ash lines. *Id.* at 28:24-29:1. CWLP uses water to move ash from the power station to Dallman Ash Pond. *Id.* at 29:1-3.

4. Dallman Ash Pond is unlined and not capped with an impermeable cap. Becker Dep. Tr. at 39:5-6, 42:24-43:3; Deposition Transcript of Susan Corcoran at 21:4-9 (Jan. 17, 2019) ("Corcoran Dep. Tr.") (excerpts provided as Attachment E); Ex. 4.01 at 00182. Some but not all of the ash has been removed from Dallman Ash Pond; ash remains in Dallman Ash Pond. Antonacci Dep. Tr. at 46:1-47:2, 49:6-24, 53:11-54:8.

5. Lakeside Ash Pond received coal ash from Lakeside Station until its closure in 2009 and still has coal ash in it from past use. Becker Dep. Tr. at 42:12-13, 70:9-16. Lakeside Ash Pond now "receives lime sludge from [CWLP'S] drinking water filter plant and the occasional blowdown from [CWLP'S] scrubber waste water treatment plant." *Id.* at 41:19-22.

Lakeside Ash Pond is upgradient of Dallman Ash Pond. Fact Deposition Transcript of Brad Hunsberger at 30:8-10 (Jan. 23, 2019) ("Hunsberger Fact Dep. Tr.") (excerpts provided as Attachment F). An aerial photo from 1958 shows that Lakeside Ash Pond and its three cells date back to that time. Corcoran Dep. Tr. at 27:10-18.

6. Lakeside Ash Pond is unlined and is not capped with an impermeable cap. Becker Dep. Tr. at 42:21-43:3; Corcoran Dep. Tr. at 20:21-21:3; Ex. 4.01 at 00182. CWLP has no plans for and is undertaking no efforts to remove ash from Lakeside Ash Pond. Antonacci Dep. Tr. at 61-62.

7. Fact witnesses who gave depositions in this matter include Patrick Becker, Susan Corcoran, Eric Staley, and William Antonacci. Patrick Becker, who goes by "P.J.," was deposed in this matter on November 29, 2018, and is Environmental Health and Safety Manager at CWLP. Becker Dep. Tr. at 5:2-3. Mr. Becker has worked for CWLP for a total of about 16 years. *Id.* at 9:3-7. Susan Corcoran was deposed in this matter on January 17, 2019 and was Engineer III in the Environmental Health & Safety Office for CWLP with chief responsibility for environmental compliance with regulations and permits. Corcoran Dep. Tr. 7:15-8:3; Becker Dep. Tr. at 8:2-9. Ms. Corcoran worked for CWLP for over thirty years. Corcoran Dep. Tr. at 10:19-24. P.J. Becker was Susan Corcoran's supervisor. *Id.* at 12:19-20. Eric Staley was deposed in this matter on January 23, 2019, is an Environmental Specialist with CWLP, and is the main CWLP employee who has taken over Ms. Corcoran's responsibilities for groundwater compliance. Staley Dep. Tr. at 8:2-4; Becker. Dep. Tr. at 8:2-22. William Antonacci was deposed in this matter on January 16, 2019 and is a Technical Specialist III at CWLP with responsibility for environmental compliance at the ash ponds. Antonacci Dep. Tr. at 10:13-11:4; 7:9-15. Mr. Antonacci has worked at CWLP since 2006. *Id.* at 20:8-9.

B. There Are Exceedances of Groundwater Quality Standards at CWLP

8. Patrick Engineering, consultant for CWLP, has classified the groundwater underneath the landfill as Class I. Hunsberger Fact Dep. Tr. at 61:9-11, 150:8-15. Brad Hunsberger is CWLP's expert witness and Vice President at Andrews Engineering, also one of CWLP's consultants. *See* Hunsberger Fact Dep. Tr. at 7:24-8:4, 14:6-24; *see also* Expert Deposition Transcript of Brad Hunsberger at 8:22-9:5, 10:5-6 (Sept. 9, 2019) ("Hunsberger Expert Dep. Tr.") (excerpts provided as Attachment G). Mr. Hunsberger identified the groundwater at the CWLP site as both Class I and Class II. Hunsberger Fact Dep. Tr. at 151:22-23. "[T]here are areas that would meet Class 1 and there are areas that would meet Class 2." *Id.* Mr. Hunsberger testified that it is easier to assume that it is all Class I than to try to distinguish between what is Class I and what is Class II. *Id.* at 153:23-154:16.

9. Groundwater monitoring at the CWLP site has documented numerous exceedances of groundwater quality standards. Specifically, CWLP lab results of the groundwater monitoring have identified ongoing violations of Illinois Class I Groundwater Quality Standards on 365 separate occasions or, in the alternative, ongoing violations of Illinois Class II Groundwater Quality Standards on 237 separate occasions, since monitoring began in late 2010. *See* Ex. D, Violations of Illinois Class I groundwater standards at the CWLP site, and Ex. E, Violations of Illinois Class II groundwater standards at the CWLP Site, to Complainants' First Amended Compl., as modified by Complainants' Notice of Errata (June 24, 2019) (provided as Attachments H and I); *see also* Ex. 6.6, CWLP Groundwater Laboratory Reports (2010 – 2017) (provided as Attachment J).

10. Monitoring began at the CWLP Site in 2010 as a result of an Illinois EPA initiative. Becker Dep. Tr. at 47:12-18. Specifically, CWLP installed AP wells, numbered AP-1

through AP-5, as monitoring wells designed to monitor contamination related to the Dallman and Lakeside Ash Ponds. Becker Dep. Tr. at 37:17-24, 38:16-19; Corcoran Dep. Tr. at 54:14. CWLP also designated monitoring well AW-3, originally installed as part of the landfill monitoring network, to monitor the ash pond as well.[2] Becker Dep. Tr. at 37:24-38:5; Corcoran Dep. Tr. at 54:14. AP-4 and AP-5 are background wells.[3] Hunsberger Fact Dep. Tr. at 29:16-30:5.

11. The Illinois Environmental Protection Agency ("IEPA") identified multiple exceedances of Class I groundwater standards between 2010 and 2013, and documented the exceedances that occurred in a Notice of Violations sent to CWLP on February 20, 2014. Ex. 4.06, IEPA Violation Notice to CWLP Re: Facility No. IL1671200, Violation Notice No.: W-2014-00002 (Feb. 20, 2014) (provided as Attachment K). In this Notice, IEPA attributed the exceedances shown by CWLP's monitoring data directly to the Dallman and Lakeside Ash Ponds. *See* Ex. 4.06; Ex. 4.14, IEPA Letter to CWLP Re: Ash Impoundment Groundwater Monitoring Report, CWLP – NPDES Permit No. IL0024767 (Aug. 3, 2011) (provided as Attachment L). ("Initial groundwater monitoring data at the City Water, Light & Power Plant shows elevated levels of boron, manganese, arsenic, and iron."); *see also* Becker Dep. Tr. at 48:18-49:16. The Notice documented 8 exceedances of boron, 8 exceedances of sulfate, 3 exceedances of TDS at monitoring well AP-1R, 1 exceedance of boron at monitoring well AP-2, 8 exceedances of boron at monitoring well AP-2R, and 9 exceedances of boron at monitoring well AP-3. *See* Ex. 4.06, at 01112-01114.

[2] AW-3 was believed to be compromised, so it was moved 10 feet north, and replaced with RW-3. Becker Dep. Tr. at 37:12-15. RW-3 got the same level of readings as AW-3. Hunsberger Fact Dep. Tr. at 48:23-49:2. Since the readings were the same, Hunsberger concluded that AW-3 was not in fact compromised. *Id.* at 48:19-22.

[3] "AP-5 is in a location that is more representative" than AP-4, Hunsberger Fact Dep. Tr. at 35:6-7, because "[t]here's no potential influence from the impoundments." *Id.* at 35:11-12.

C. Ash Ponds at CWLP Are Leaking and Leaching

12. The fact that the coal ash impoundments are leaking has been demonstrated by ongoing seepage from the ponds observable from the surface. Lakeside Ash Pond in particular has had multiple areas of seepage. Antonacci Dep. Tr. at 27-37; Corcoran Dep. Tr. at 35-43. This seepage "has not been uncommon." Corcoran Dep. Tr. at 36:6-9.

13. Seepage includes an area along the west berm of Lakeside Ash Pond. Corcoran Dep. Tr. at 35:11-13; Antonacci Dep. Tr. at 36:9-23. The slope from the roadway down to Sugar Creek west of the west berm of Lakeside Ash Pond also had seepage, enough to require a sump pump to control it. Corcoran Dep. Tr. at 38:17-19, 40:10-12; Antonacci Dep. Tr. at 33:7-9, 37:3-7. A third area of seepage is in the northeast corner where CWLP has "a weak spot." Corcoran Dep. Tr. at 43:7-10, 24. "[T]he area will get sort of soggy and leak." *Id.* at 43:9-10.[4]

14. This observable seepage has occurred because of "the construction of adding an expansion onto an existing berm that was not made very well." Corcoran Dep. Tr. at 36:19-21. That seepage is water from Lakeside Ash Pond and would have ash in it. *Id.* at 37:24-38:6.

D. Ash Ponds at the CWLP Site Are Causing Exceedances of Groundwater Quality Standards

15. Downgradient monitoring wells show the contribution of both Dallman and Lakeside Ash Ponds. Hunsberger Fact Dep. Tr. at 29:16-31:3. There is no room between the Lakeside and Dallman Ash Ponds to install monitoring wells. *Id.* at 30:12-15. As a result, the monitoring system at CWLP is only capable of capturing combined contribution from both the Dallman and Lakeside Ash Ponds. *Id.* at 29:16-31:3; 84:10-14.

[4] "[W]hen we first started you could drive -- you would drive along the ash line and there were some locations where the water -- where you could see water on the ground and you could not see -- you could not really tell where it was coming from or you could not see a flow a lot of times but, I mean, you knew that there was some issue there." Antonacci Dep. Tr. at 21:22-22:5. There was water flowing on the north side of Lakeside Ash Pond over the roadway into the clarification pond. *Id.* at 41:1-20.

16. Brad Hunsberger, CWLP's expert, "believe[s] that the Dallman and Lakeside Ash Ponds collectively are responsible for any change in concentrations between the upgradient and downgradient wells at the impoundments." Hunsberger Fact Dep. Tr. at 84:10-14. Mr. Hunsberger stated that he has no "reason to believe that something else might be causing that change in concentrations of the parameters upgradient and downgradient wells." *Id.* at 84:18-22.

17. CWLP and IEPA also reached the same conclusion in their correspondence related to the Violation Notice. IEPA concluded that "groundwater monitoring data at the City Water, Light & Power Plant shows elevated [constituents] at monitoring wells located downgradient from the ash storage impoundments." *See* Ex. 4.14; *see also* Becker Dep. Tr. at 48:18-49:16. In response, CWLP sent a letter to the IEPA that conceded the groundwater exceedances "appear to have resulted from CWLP's operation of its ash impoundments." Ex. 4.07, CWLP Resp. to IEPA Re: Violation Notice No.: W-2014-00002, Facility No. IL1671200 (Apr. 2, 2014), at 01117 (provided as Attachment M).[5]

E. CWLP Is Aware of Actions that Could Remedy and Reduce the Exceedances but Failed to Take Any Action

18. CWLP is aware of the groundwater contamination and is fully aware of the steps it needs to take to reduce the likelihood of ash contaminating groundwater but has thus far failed to take any such steps. *See, e.g.*, Staley Dep. Tr. at 34-39; Corcoran Dep. Tr. at 115:9-116:8; Becker Dep. Tr. at 45:14-23, 89:5-17; Hunsberger Fact Dep. Tr. at 88:7-11, 138:21-139-2. Thus, CWLP has failed to take the necessary steps to prevent contamination.

[5] Further evidence that the ash ponds are a source of coal ash constituents found at and around the site is demonstrated by impacts to Sugar Creek. Ash ponds are contributing to boron in the creek. Corcoran Dep. Tr. at 105:13-16. "The boron levels at [IEPA monitoring station] EOA-01 on Sugar Creek are clearly influenced by CWLP outfall discharges 003 and 004 into Sugar Creek." Ex. 29.3, CWLP, NPDES Permit IL0024767, Report on the Ecological and Water Quality Impacts of Boron Discharged by CWLP into Sugar Creek (Apr. 15, 1994) (excerpts), at 27140 (quoted in Corcoran Dep. Tr. at 103:23-104:12) (provided as Attachment N). CWLP is "the only source of boron going in the Sugar Creek by that -- oh, by that sampling point." Corcoran Dep. Tr. at 104:10-12.

19. No corrective action has been taken in response to groundwater issues at the ash ponds. Becker Dep. Tr. at 45:14-23. CWLP has "no plans to assess the scope of contamination or to mitigate that contamination around wells AP-1, 2, or 3." Hunsberger Fact Dep. Tr. at 88:7-11. Aside from correspondence and meeting with IEPA, CWLP did not "do anything on its own to try to address the exceedances that were identified." Becker Dep. Tr. at 89:5-17.

20. CWLP has never lined the Dallman or Lakeside Ash Ponds. Becker Dep. Tr. at 39:5-6, 42:21-23; Corcoran Dep. Tr. at 20:21-21:9; Ex. 4.01 at 00182.

21. CWLP is aware that closing and capping ash impoundments reduces groundwater contamination. "But let's say it's sitting on the ground and if you have -- have not had it covered, you have storm water going through, you have the ability to leach and reach in the groundwater. If you cover it, that reduces any storm water getting to it, which reduces runoff and infiltration and you could prevent it from reaching the groundwater." Corcoran Dep. Tr. at 116:2-8. CWLP has not closed Lakeside Ash Pond and there are no current plans to do so. Antonacci Dep. Tr. at 79:14-20. Neither Dallman nor Lakeside Ash Ponds have been capped. Becker Dep. Tr. at 42:24-43:3.

22. CWLP is also aware of the benefits of dry ash handling. Unit 4 does not use ash ponds for treatment, handling, or disposal of its coal ash because it has a dry ash handling system. Becker Dep. Tr. at 37:1-6; Antonacci Dep. Tr. at 72:24-73:7. "I believe that at the time that Unit 4 was built, the awareness of the benefits of getting rid of it dry, the technology was there to do that. I don't know that that was an industry practice when the other units were built to handle it dry." Antonacci Dep. Tr. at 76:1-5.

23. The only response to groundwater exceedances at the site has focused on arsenic at AW-3. Corcoran Dep. Tr. at 64:8-12. ("So this was an internal investigation looking to see,

punching a couple of wells in the vicinity of -- vicinity of AW-3 to see if arsenic was a problem anywhere else because we weren't seeing arsenic anywhere else.") The new wells installed near AW-3 were temporary. *Id.* at 65:1-3. CWLP is not considering steps to investigate the extent of any other elevated constituents at the site besides arsenic. Becker Dep. Tr. at 82:3-7. CWLP also has not undertaken any "efforts to determine the scope of the alleged contamination plume in the area of Wells AP-1, 2, or 3." Hunsberger Fact Dep. Tr. at 138:21-139-2; 88:7-11.

24. Before communications stalled with IEPA, CWLP also proposed to IEPA steps that CWLP believed would reduce the risk of groundwater contamination. Staley Dep. Tr. at 54:5-10. As part of a Compliance Commitment Agreement in response to the IEPA Violation Notice, CWLP proposed a dry ash handling system. Becker Dep. Tr. at 78:20-23; Ex. 4.07; Staley Dep. Tr. at 54:11-13. CWLP proposed dry ash handling over the current ash handling system because it posed less of a risk of groundwater contamination. Staley Dep. Tr. at 54:14-18. IEPA rejected CWLP's proposed CCA for procedural reasons. Becker Dep. Tr. at 79:3-4, 127:2-5. However, CWLP didn't follow through implementing what it proposed in the CCA. *Id.* at 80:21-22.

F. CWLP Failed to Take Any Action to Respond to Violations of State Law

25. CWLP's response to groundwater contamination has focused exclusively on the federal CCR rules and not on Illinois State groundwater regulations. Becker Dep. Tr. at 49:17-51:6, 57:3-12. CWLP has been open about its disregard of state groundwater regulations: P.J. Becker, Environmental Health and Safety Manager for CWLP, stated that for "the industry, it's very difficult to try to follow two different types of regulations. It's just easier to be able to follow one regulation, and I think that was what the state [of Illinois] believed as well." Becker Dep. Tr. at 7:3-5, 47:22-48:2.

26. But Mr. Becker admits that no one at IEPA ever told CWLP "explicitly that state regulatory rules no longer apply to CWLP." Becker Dep. Tr. at 84:24-85:3. No one at IEPA ever told anyone at CWLP that there were "changes made specifically to enable [CWLP] to ignore Illinois regulatory provisions." *Id.* at 85:4-7. Mr. Becker had no "conversations with anyone at Illinois EPA that support [his] belief that [CWLP doesn't] need to comply with Illinois regulatory rules." *Id.* at 85:8-12.

27. There were also no "changes to regulations that [Mr. Becker was] aware of that would have affected [CWLP's] obligations to comply with state law." Becker Dep. Tr. at 87:1-4. Mr. Becker understands that the CCR Rule doesn't change CWLP's obligations under state law. *Id.* at 127:10-15.

28. Mr. Hunsberger stated that assessing or mitigating contamination around wells AP-1, 2, or 3 is "not necessary under the CCR Rules." Hunsberger Fact Dep. Tr. at 88:7-11. Similar to Mr. Becker, Mr. Hunsberger stated that once the CCR rules applied to the site, he viewed it as "no longer necessary" to take any action in response to exceedances at wells AP-1, 2 or 3. Hunsberger Fact Dep. Tr. at 88:12-89:3. Efforts to determine the scope of the alleged contamination plume in the area of wells AP-1, 2, or 3 are "not required by the 257 Rules so we're not doing it." *Id.* at 138:21-139:4-5.

IV. STANDING

Pursuant to Section 31(d)(1) of the Illinois Environmental Protection Act ("Act") and Article XI of the Illinois Constitution, Complainants have associational standing to seek the Board's review of CWLP's compliance with the Act or any rule or regulation adopted under the Act. Associational standing is conferred directly by Section 31(d)(1) of the Act, which authorizes any person to file a complaint with the Board against any person allegedly violating

the Act, any rule or regulation adopted under the Act, or any permit or term or condition thereof. 415 ILCS 5/31(d)(1). The Act defines a "person" to include an "association." 415 ILCS 5/3.315. Therefore, standing for Complainants is established by the statute underlying the cause of action.

The Board has acknowledged that, where a petitioner has demonstrated statutory standing under the Environmental Protection Act, "consideration of constitutional standing is not necessary." *Sierra Club v. Ill. Envtl. Prot. Agency*, PCB 15-189, 2016 WL 4400780, at *7 (IPCB Apr. 7, 2016). Nonetheless, Complainants also can demonstrate constitutional standing to bring this enforcement action. Article XI of the 1970 Illinois constitution provides, "[e]ach person has the right to a healthful environment. Each person may enforce this right against any party, governmental or private, through appropriate legal proceedings subject to reasonable limitation and regulation as the General Assembly may provide by law." ILL. CONST. art. XI, § 2. This constitutional right eliminates the need for plaintiffs to demonstrate personalized injuries in actions seeking to protect a healthful environment. *See Glisson v. City of Marion*, 188 Ill. 2d 211, 228, 720 N.E.2d 1034, 1043 (1999) ("It was the intent of the committee to broaden the law of standing by eliminating the traditional special injury prerequisite for standing to bring an environmental action.").

V. ARGUMENT

Under the Board's procedural rules, summary judgment is proper when "the record, including pleadings, depositions and admissions on file, together with any affidavits, shows that there is no genuine issue of material fact." 35 Ill. Admin. Code § 101.516(b). Summary judgment must be granted when the Board finds that "there is no genuine issue of material fact and that the undisputed facts show that complainant's right to the relief requested is 'clear and

free from doubt.'" *People v. Skokie Valley Asphalt, Inc.*, PCB 96-98, 2001 WL 505193, at *2 (IPCB May 3, 2001) (quoting *Dowd & Dowd, Ltd. v. Gleason*, 181 Ill. 2d 460, 483, 693 N.E.2d 358, 370 (1998)). The party opposing the summary judgment motion may not rest on the pleadings, but must "present a factual basis which would arguably entitle [it] to a judgment." *Gauthier v. Westfall*, 266 Ill. App. 3d 213, 219, 639 N.E.2d 994, 999 (1994) *quoted in Skokie Valley Asphalt*, PCB 96-98, 2001 WL 505193, at *1.

A. CWLP Violated the Illinois Environmental Protection Act by Causing or Allowing Water Pollution at the Site

Section 12(a) of the Illinois Environmental Protection Act ("Act") provides that "[n]o person shall … [c]ause or threaten or allow the discharge of any contaminants into the environment in any State so as to cause or tend to cause water pollution in Illinois, either alone or in combination with matter from other sources…" 415 ILCS 5/12(a). The Act defines, "water pollution" as:

> [S]uch alteration of the physical, thermal, chemical, biological or radioactive properties of any waters of the State, or such discharge of any contaminant into any waters of the State, as will or is likely to… render such waters harmful or detrimental or injurious to public health, safety or welfare, or to domestic, commercial, industrial, agricultural, recreational, or other legitimate uses, or to livestock, wild animals, birds, fish, or other aquatic life.

415 ILCS 5/3.545. "Waters," in turn, is defined as "all accumulations of water, surface and underground, natural, and artificial, public and private, or parts thereof, which are wholly or partially within, flow through, or border upon this State." 415 ILCS 5/3.550 (emphasis added). As a result, the statutory definition of "waters" of the State includes groundwater. *See Sierra Club* v. *Midwest Generation ("MWGen")*, PCB 13-15, slip op. at 77 (June 20, 2019) (citing 415 ILCS 5/3.550. Waters of the state includes water in wells. *Tri-County Landfill Co. v. Ill. Pollution Control Bd.*, 41 Ill. App. 3d 249, 253-54, 353 N.E.2d 316, 320-21 (1976); *People ex*

rel. Ryan v. Stonehedge, Inc., 288 Ill. App. 3d 318, 321-22, 680 N.E.2d 497, 500 (1997); *see also People v. Chalmers,* PCB 96-111, 2000 WL 47918, at *7 (ICPB Jan. 6, 2000).

The Board has concluded that a party has violated Section 12(a) of the Act, when the Board finds that a respondent discharged or threatened to discharge a contaminant that is likely to render waters harmful, detrimental, or injurious to public health. *See Sierra Club v. MWGen*, slip op. at 77 (citing *People v. CSX Transp., Inc.*, PCB 07-16, 2007 WL 2050813, at *15-16 (IPCB July 12, 2007)). "The Board has also found that a discharge of a contaminant that violated the Board's GQS [groundwater quality standards] violates Section 12(a) of the Act." *See Sierra Club v. MWGen*, slip op. at 77 (citing *Int'l Union v. Caterpillar, Inc.*, PCB 94-240, 1996 WL 454961, at *28-29 (IPCB Aug. 1, 1996).

1. CWLP Caused or Allowed the Discharge of Contaminants into the Environment

To determine whether a party has "cause[d] or threaten[ed] or allow[ed] the discharge of any contaminants" into waters of the State, Illinois courts and the Board focus on two factors: first and primarily, whether the party has the "capability of control" over the water pollutants or the premises where the water pollution occurred, and second, whether the party has taken "extensive precautions" to prevent pollution from occurring. *See, e.g., Gonzalez v. Pollution Control Bd.*, 2011 IL App (1st) 093021, ¶ 33 ("Property owners are responsible for the pollution on their land unless the facts establish the owners either lacked the capability to control the source or had undertaken extensive precautions to prevent vandalism or other intervening causes") (internal quotations and citations omitted); *People v. A.J. Davinroy Contractors*, 249 Ill. App. 3d 788, 794, 618 N.E.2d 1282, 1287 (1993) (defendant liable when it "neither lacked the capability to control the source of the pollution nor undertook any precautions to prevent the pollution"); *Perkinson v. Ill. Pollution Control Bd*., 187 Ill. App. 3d 689, 694-95, 543 N.E.2d

901, 904 (1989) (Illinois has a "long line of precedent . . . which holds that the owner of the source of the pollution causes or allows the pollution . . . and is responsible for that pollution unless . . . the owner either lacked the capability to control the source … or had undertaken extensive precautions to prevent vandalism or other intervening causes").

a. CWLP Had Capability of Control over the Discharge of Contaminants

Turning first to the first test, it is immediately clear that CWLP had capability of control over the discharge of contaminants. When a party owns the premises where pollution occurs, Illinois courts and the Board presume that party has control over those premises. *See, e.g., People v. Inverse Investments, LLC,* PCB 11-79, 2012 WL 586821, at *10 (IPCB Feb. 16, 2012) (denying motion to dismiss when complaint alleged that defendant owned site "that contain[ed] contamination that is migrating offsite and polluting groundwater"); *Meadowlark Farms, Inc. v. Ill. Pollution Control Bd.,* 17 Ill. App. 3d 851, 861, 308 N.E.2d 829, 836 (1974) (petitioner allowed water pollution in violation of Section 12(a) of the Act when it owned the premises on which the pollution occurred as well as the source of pollution); *Freeman Coal Mining Corp. v. Ill. Pollution Control Bd*., 21 Ill. App. 3d 157, 160, 313 N.E.2d 616, 619 (1974) (finding liability for mine owner even when rain, "a natural force beyond the control of Petitioner," was the immediate cause of the discharge from the mine refuse piles).

In the present case, CWLP has control over the premises where the pollution occurred because it operates the CWLP Site, including all ash impoundments. Statement of Undisputed Facts, *infra*, ("SOF") ¶ 1-2. Specifically, CWLP admits to currently or previously operating both Dallman and Lakeside Stations, *id.* ¶ 1, and that it operates Dallman and Lakeside Ash Ponds and the "treatment works" that include them. Resp't Answer to Amended Compl. ¶ 2; SOF ¶ 2. Parties who operate the premises or the source of pollution likewise exercise control over those

premises or pollution sources. *See A.J. Davinroy Contractors*, 249 Ill. App. 3d at 794 (contractor operating bypass system had capability of control over pumps it was contractually obligated to maintain); *People v. Michel Grain Co.*, PCB No. 96-143, 2002 WL 2012414, at *3-4 (IPCB Aug. 22, 2002) (denying lessee's motion to dismiss when "a respondent with control over a site" may violate Act); *see also Allaert Rendering, Inc. v. Ill. Pollution Control Bd.*, 91 Ill. App. 3d 153, 155-56, 414 N.E.2d 492, 494-95 (1980) (holding plant operator liable under § 12(a) for threatening to discharge contaminants into surface water when the plant's wastewater system held contaminated water in a lagoon that had previously flooded twice).

CWLP's operation of the site suffices to establish that it had control over the premises where pollution occurred. *See A.J. Davinroy Contractors*, 249 Ill. App. 3d at 794; *Michel Grain Co.*, PCB No. 96-143, 2002 WL 2012414, at *3-4; *Allaert Rendering, Inc.*, 91 Ill. App. 3d at 155-56. Thus, CWLP has satisfied the control requirement to demonstrate a violation of Section 12(a) because it has control over the plant sites and ash ponds through its operation of the sites and the treatment works. *See, e.g., A.J. Davinroy Contractors*, 249 Ill. App. 3d at 794.

b. CWLP Did Not Take Extensive Precautions to Prevent the Discharge of Contaminants

Turning now to the second demonstration required to establish that CWLP "cause[d] or threaten[ed] or allow[ed] the discharge of any contaminants" into waters of the State, it is equally clear that CWLP has failed to take extensive precautions to prevent groundwater pollution from the coal ash in the impoundments that it controls. Board precedent is clear that a party with control over the premises or source of pollution cannot avoid liability unless that party has taken "extensive precautions" to prevent the pollution. *See, e.g., Gonzalez*, 2011 IL App (1st) 093021, ¶¶ 33-35; *Perkinson*, 187 Ill. App. 3d at 694-95. When a party is aware of a source of contamination on its property but does not remove that source, it has not taken sufficient

precautions to prevent pollution. *Gonzalez*, 2011 IL App (1st) 093021, ¶ 34 (Petitioners violated the Act when they "were aware of the preexisting fly-dumped waste at the time of the purchase but failed to remove it for over 14 months"). Similarly, when a material that is likely to leach is present, and the party controlling the source of pollution fails to install liners to retain leachate or monitoring wells "built to track" contamination, the party has not taken sufficient precautions to avoid liability under § 12(a) of the Act. *Wasteland, Inc. v. Ill. Pollution Control Bd.*, 118 Ill. App. 3d 1041, 1049, 456 N.E.2d 964, 972 (1983) (upholding the Board's holding that § 12(a) of the Act was violated in light of "the presence of unpermitted material, likely to create leachate problems, and the lack of natural or required safeguards against water pollution…").

In this case, the circumstances of CWLP's operation of the site all point clearly to CWLP having failed to exercise any precautions whatsoever to avoid contamination, let alone "extensive" precautions. CWLP witnesses made clear on multiple occasions that they were aware of the contamination but failed to take any steps to prevent the groundwater from getting contaminated. SOF ¶¶ 18-24. CWLP similarly made clear it was aware of the groundwater monitoring results; but the company has not undertaken and is not undertaking any further actions to control the specific sources. *Id.* ¶¶ 15-19, 28. In fact, CWLP received and responded to the violation notice from IEPA by acknowledging that the ash impoundments are likely the cause of the groundwater exceedances. *Id.* ¶ 17. CWLP suggested that it might implement dry ash handling of all newly created ash as part of a compliance commitment agreement proposal with IEPA during the period that CWLP and IEPA were actively communicating regarding the Violation Notice; but those conversations have faltered, and the company has not followed through with installing dry ash handling at all units at the plant. SOF ¶ 24. CWLP has also not capped or closed the ponds, removed all of the ash from the ponds, or lined the ponds. *Id.* ¶¶ 4,

6, 20-21. In short, CWLP did not just fail to take extensive precautions to prevent the coal ash ponds from contaminating the groundwater; it failed to take any precautions (even the most minimal) to protect the groundwater from being contaminated by coal ash in Dallman and Lakeside Ash Ponds.

c. Other Considerations Do Not Undermine the Conclusion That CWLP Caused or Allowed the Discharge of Contaminants at the CWLP Site

It is unnecessary to pinpoint either Dallman or Lakeside Ash Pond as the source of contamination in order to find CWLP liable. The groundwater monitoring results narrow the contamination to the defined area within the Station delineated by the monitoring wells. *See Sierra Club v. MWGen*, slip op. at 79 (citing *A.J. Davinroy Contractors,* 249 Ill. App. 3d at 796). As the owner or operator of the Station, CWLP has control over both of its ash ponds. *See Sierra Club v. MWGen*, slip op. at 79 (internal citations omitted).

Further, liability is not defeated if the party did not "intend" to cause, threaten or allow the pollution. The party's intent, or lack thereof, has no bearing on liability. *People v. Fiorini*, 143 Ill. 2d 318, 345, 574 N.E.2d 612, 623 (1991) ("[I]ntent is not an element to be proven for a violation under the [Illinois Environmental Protection] Act.").

2. The Contaminants Discharged into the Groundwater Caused, and Continue to Cause, Water Pollution in Illinois.

The next step of the legal inquiry asks whether the contamination CWLP caused or allowed has, in fact, resulted in "water pollution" in Illinois. 415 ILCS 5/12(a). Under § 12(a), once the Board determines that a party "[c]ause[d] or threaten[ed] or allow[ed] the discharge of any contaminants into the environment," the Board must then determine whether that discharge "cause[d] or tend[ed] to cause water pollution in Illinois, either alone or in combination with matter from other sources…." *Id.*

In this case, this is not a complicated inquiry: CWLP's monitoring, as acknowledged by both IEPA and CWLP itself, has conclusively demonstrated that the contaminants CWLP allowed to enter the groundwater caused, and continue to cause, water pollution. SOF ¶¶ 8-11, 15-17. As discussed below, contaminants were present in excess of the Board's Class I or Class II groundwater quality standards, thereby causing a violation of Section 12(a) of the Act.

a. CWLP Caused Exceedances of the Class I Groundwater Quality Standards

It is clear from CWLP's own monitoring results that CWLP discharged contaminants to the groundwater and that contamination, in turn, caused exceedances of Class I Groundwater Standards. SOF ¶¶ 8-11, 15-16. The Board has held that water pollution exists when contaminants are present in excess of the groundwater quality standards adopted by the Board. *See Sierra Club v. MWGen*, slip op. at 77-85; *Int'l Union*, PCB No. 94-240, 1996 WL 454961, at *29 (finding violation of § 12(a) of the Act and holding that "exceedences of the Part 620 standards … constitutes degradation of one of the State's water resources and indicates the presence of water pollution…"); *Inverse Investments*, PCB 11-79, 2012 WL 586821, at *1, 9-10 (denying motion to dismiss when defendants alleged to have caused or allowed migration of contaminants into the groundwater causing violations of Class I groundwater standards, which "created, or threatened to create a nuisance and rendered the groundwater harmful to human health and the environment"); *see also People v. Hicks Oil & HicksGas, Inc.*, PCB No. 10-12, 2009 WL 6506671, at *1 (IPCB Aug. 6, 2009) (accepting complaint for hearing when People allege that respondent violated § 12(a) of the Act "by causing or allowing the discharge of contaminants to groundwater so as to exceed the Board's Groundwater Quality Standards for a Class I resource groundwater, and to thereby render such water harmful or detrimental or injurious to public health, safety or welfare…") (emphasis added).

IEPA and CWLP consultants have identified the groundwater at the CWLP site as Class I. IEPA cited Class I standards as the applicable standards in its violation notice to CWLP. SOF ¶ 11 (citing 35 Ill. Admin. Code § 620.410). Patrick Engineering, consultant for CWLP, has classified the groundwater underneath the landfill as Class I. *Id.* ¶ 8. Brad Hunsberger, expert witness for CWLP and Vice President at Andrews Engineering, a CWLP consultant, testified that it is easier to assume that it is all Class I than to try to distinguish between what is Class I and what is Class II. *Id.*

Section 620.410 establishes Class I GQSs that cannot be exceeded in potable resource groundwater. 35 Ill. Admin. Code § 620.410. "Potable Resource Groundwater" is defined as:

> Groundwater located 10 feet or more below the land surface and within: (1) The minimum setback zone of a well which serves as a potable water supply and to the bottom of such well; (2) Unconsolidated sand, gravel or sand and gravel which is 5 feet or more in thickness and that contains 12 percent or less of fines . . . ; (3) Sandstone which is 10 feet or more in thickness, or fractured carbonate which is 15 feet or more in thickness; or (4) Any geologic material which is capable of a: (A) Sustained groundwater yield, from up to a 12 inch borehole, of 150 gallons per day or more from a thickness of 15 feet or less; or (B) Hydraulic conductivity of 1×10^{-4} cm/sec or greater using one of the following test methods or its equivalent: (i) Permeameter; (ii) Slug test; or (iii) Pump test.

Id. § 620.210(a). The definition of Class I groundwater specifically excludes: Class III "special resource groundwater," Class IV "other groundwater," which includes groundwater in a zone of attenuation; and groundwater in a "groundwater management zone." 35 Ill. Admin. Code § 620.210.

The Illinois Class I GQSs for contaminants identified in this motion are as follows:

Chemical	**Class I GQS (mg/L)**
Arsenic	0.01
Boron	2
Chromium	0.1
Iron	5
Lead	0.0075
Manganese	0.15
Sulfate	400
Total Dissolved Solids (TDS)	1,200

See 35 Ill. Admin. Code § 620.410(a). CWLP lab results of the groundwater monitoring have identified ongoing exceedances of Illinois Class I Groundwater Quality Standards on 365 separate occasions since monitoring began in late 2010. SOF ¶ 9. Since contaminants were present in excess of the Board's Class I groundwater quality standards consistently over the past almost-ten years, these 365 testing events demonstrate ongoing violations of Section 12(a) of the Act.

b. Alternatively, CWLP Caused Exceedances of the Class II Groundwater Quality Standards.

CWLP's monitoring results indicate that CWLP's contamination also caused exceedances of Class II Groundwater Standards, even if Class I standards do not apply. Water pollution exists when contaminants are present in excess of the any of the groundwater quality standards adopted by the Board, whether Class I or Class II. *See Int'l Union*, PCB No. 94-240, 1996 WL 454961, at *29 (finding violation of § 12(a) of the Act and holding that "exceedences

of the Part 620 standards… constitutes degradation of one of the State's water resources and indicates the presence of water pollution…"); *see also Inverse Investments*, PCB 11-79, 2012 WL 586821, at *1, 9-10; *Hicks Oil*, PCB No. 10-12, 2009 WL 6506671, at *1.

Brad Hunsberger identified the groundwater at the CWLP site as both Class I and Class II. SOF ¶ 8. "[T]here are areas that would meet Class 1 and there are areas that would meet Class 2." *Id.* Section 620.420 establishes Class II GQSs that cannot be exceeded in general resource groundwater. 35 Ill. Admin. Code § 620.420. "General Resource Groundwater" is defined as "[g]roundwater which does not meet the provisions of . . . Class I . . . Class III . . . or . . . Class IV" and "[g]roundwater which is found by the Board, pursuant to the petition procedures set forth in Section 620.260, to be capable of agricultural, industrial, recreational or other beneficial uses." 35 Ill. Admin. Code § 620.220. Groundwater in a zone of attenuation must meet Class II GQSs. *Id.* § 620.440(b).

The Illinois Class II GQSs for contaminants identified in this motion are as follows:

Chemical	**Class II GQS (mg/L)**
Arsenic	0.2
Boron	2
Chromium	1.0
Iron	5
Lead	0.10
Manganese	10
Sulfate	400
Total Dissolved Solids (TDS)	1,200

See 35 Ill. Admin. Code § 620.420. CWLP lab results of the groundwater monitoring have identified ongoing exceedances of Illinois Class II Groundwater Quality Standards on 237 separate occasions since monitoring began in late 2010. SOF ¶ 9. Since contaminants were present in excess of the Board's Class II groundwater quality standards consistently over the past almost-ten years, these 237 testing events demonstrate ongoing violations of Section 12(a) of the Act.

c. Harm Would Occur If the Contaminated Groundwater Were Used

Because the Act treats water as a resource, water pollution is present not only when actual harm has occurred or will occur, but rather whenever "harm *would* occur if the contaminated water were to be used." *Central Ill. Pub. Serv. Co. v. Pollution Control Bd.*, 116 Ill. 2d 397, 409, 507 N.E.2d 819, 824 (1987) ("*CIPSCO*") (emphasis in original). The Illinois Supreme Court upheld the Board's decision, explicitly agreeing with the Board's interpretation that "any contamination which prevents the State's water resources from being usable … constitute[s] pollution." *Id*. at 409-10. In the present case, the contamination exceeds either applicable standards, Class I or Class II, and this would cause harm if the contaminated water were used; therefore, CWLP's contamination has caused water pollution.

B. CWLP Violated the Act's Implementing Regulations by Causing Exceedances of the Class I or Class II Groundwater Quality Standards

By violating § 12(a) of the Act at the plant and allowing exceedances of the groundwater quality standards set forth at 35 Ill. Admin. Code §§ 620.410 or 420, CWLP has also violated Board regulations concerning the protection of groundwater. Namely, CWLP violated 35 Ill. Admin. Code §§ 620.115, 620.301(a) and 620.405.

Section 620.115 of the Illinois Administrative Code provides that: "No person shall cause, threaten or allow a violation of the Act, the [Illinois Groundwater Protection Act] or regulations adopted by the Board thereunder, including but not limited to this Part." 35 Ill. Admin. Code § 620.115. For the reasons explained above, CWLP has violated the Act as well as groundwater protection regulations adopted by the Board, and therefore has violated 35 Ill. Admin. Code § 620.115.

Section 620.301(a) provides that: "No person shall cause, threaten or allow the release of any contaminant to a resource groundwater such that: 1) Treatment or additional treatment is necessary to continue an existing use or to assure a potential use of such groundwater; or 2) An existing or potential use of such groundwater is precluded." 35 Ill. Admin. Code § 620.301(a). CWLP allowed the release of contaminants to the groundwater so as to cause hundreds of exceedances of the groundwater quality standards. When groundwater, as here, is contaminated by constituents that exceed groundwater quality standards in Section 620.410(a) or 420(a), the existing and potential use of such groundwater is precluded. *See Sierra Club v. MWGen*, slip op. at 84-85. Since the existing or potential use is precluded, CWLP has violated section 620.301(a).

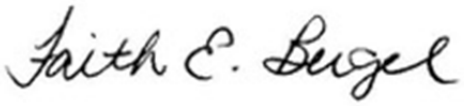
Finally, Section 620.405 of the Illinois Administrative Code provides that "[n]o person shall cause, threaten or allow the release of any contaminant to groundwater so as to cause a groundwater quality standard set forth in this Subpart to be exceeded." 35 Ill. Admin. Code § 620.405. As discussed herein, CWLP allowed the release of contaminants to the groundwater so as to cause hundreds of exceedances of the groundwater quality standards. Accordingly, CWLP violated 35 Ill. Admin. Code § 620.405 on hundreds of occasions.

VI. CONCLUSION

Therefore, for the reasons listed above, Complainants hereby request that the Board grant Partial Summary Judgment on the question of Respondent's liability for violation of the Act at the CWLP Site.

Dated: January 29, 2020

Respectfully submitted,



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List of Attachments

Deposition Transcript of Eric Staley (Jan. 23, 2019) (excerpts)..... Attachment A

Deposition Transcript of Patrick J. Becker (Nov. 29, 2018) (excerpts) ..... Attachment B

Discovery Ex. 4.01, IEPA Map of CWLP Lakeside and Dallman Ponds (Mar. 2014) (excerpts) ..... Attachment C

Deposition Transcript of William Antonacci (Jan. 16, 2019) (excerpts)..... Attachment D

Deposition Transcript of Susan Corcoran (Jan. 17, 2019) (excerpts)..... Attachment E

Fact Deposition Transcript of Brad Hunsberger (Jan. 23, 2019) (excerpts)..... Attachment F

Expert Deposition Transcript of Brad Hunsberger (Sept. 9, 2019) (excerpts) ..... Attachment G

First Amended Compl. Ex. D, Violations of Illinois Class I groundwater standards at the CWLP Site, as modified by Complainants' Notice of Errata (June 24, 2019) ..... Attachment H

First Amended Compl. Ex. E, Violations of Illinois Class II groundwater standards at the CWLP Site, as modified by Complainants' Notice of Errata (June 24, 2019)..... Attachment I

Discovery Ex. 6.6, CWLP Groundwater Laboratory Reports (2010 – 2017)..... Attachment J

Discovery Ex. 4.06, IEPA Violation Notice to CWLP Re: Facility No. IL1671200, Violation Notice No.: W-2014-00002 (Feb. 20, 2014)..... Attachment K

Discovery Ex. 4.14, IEPA Letter to CWLP Re: Ash Impoundment Groundwater Monitoring Report, CWLP – NPDES Permit No. IL0024767 (Aug. 3, 2011)..... Attachment L

Discovery Ex. 4.07, CWLP Resp. to IEPA Re: Violation Notice No.: W-2014-00002, Facility No. IL1671200 (Apr. 2, 2014) ..... Attachment M

Discovery Ex. 29.3, CWLP, NPDES Permit IL0024767, Report on the Ecological and Water Quality Impacts of Boron Discharged by CWLP into Sugar Creek (Apr. 15, 1994) ..... Attachment N

Attachment A

Electronic Filing: Received, Clerk's Office 01/29/2020

BEFORE THE POLLUTION CONTROL BOARD

SIERRA CLUB, PRAIRIE RIVERS NETWORK, AND NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE, Complainants,	)	
vs.	)	Case No. PCB 18-11
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES, d/b/a CITY WATER LIGHT AND POWER, Respondent.	)	Enforcement-Water

Discovery Deposition of ERIC STALEY, taken at the instance of the Complainants, on January 23, 2019, scheduled for the hour of 1:00 P.M., at 800 East Monroe, Fourth Floor, Springfield, Illinois, before Donna M. Dodd, Certified Shorthand Reporter and Notary Public, pursuant to the attached stipulation.

DONNA M. DODD, CSR
donnadoddcsr@att.net
(217) 652-2474

A. Not specifically for this deposition, no.
Q. And we've already established you're an employee at CWLP. What is your position?
A. My title is Environmental Specialist.
Q. Is your title different from your position?
A. No.
Q. Okay. And what are your responsibilities in that position?
A. My position, I manage the solid, liquid, and hazardous waste programs for the Utility. I manage the CCR inspections. I am a wastewater operator and a landfill operator, among other miscellaneous duties.
Q. Okay. I'm just jotting that down so that I can ask some questions about each one of those. So you started by saying you manage solid, liquid, and hazardous waste?
A. Correct.
Q. What tasks does that involve?
A. The inspections of all of our waste accumulation points, coordinating with contractors for the disposal of such wastes and any necessary reporting.

Q. And for the CCR inspections, what tasks does that entail?

A. On a weekly basis there's one of three people that do the required CCR inspection and I'm one of those people that do that.

Q. And can you explain what's involved in doing the actual inspection?

A. During the inspection we walk down or drive around all the areas of the two units and we look for any erosional features, any seeps, any obvious apparent issues with anything to do with the impoundments or the structures or the operation of the units.

Q. And when you mentioned the two units, what units are you actually referring to? Do they have names?

A. We call them the CCR landfill and the CCR surface impoundments.

Q. And how many surface impoundments are there?

A. We have two surface impoundments.

Q. And the names of those?

A. Lakeside ash pond and Dallman ash pond.

Q. Okay. Thank you.

State Standard is 2 milligrams per liter. If the State Standard is 2 milligrams per liter, do you know if this exceeds that?

A. If the State is 2 milligrams per liter, this would be 20.3 milligrams per liter.

Q. Okay. So have you -- and I could do this for eight quarters, but I'm just going to try to cut to the chase. Have you reviewed boron results in AP-1 in the course of reviewing the lab results?

A. Yes.

Q. And have you noted that boron has exceeded the State Standard in AP-1?

A. When you say State Standard, which standard are you referring to?

Q. I'll start with Class 1 Standards, but the Class 1 and the Class 2 are the same.

A. We don't compare the numbers to Class 1 or Class 2. We would compare them to the background concentration that's established for the ash ponds.

Q. Do you know what the background concentration established for the ash ponds is?

A. Not off the top of my head, but we have it somewhere I'm sure in this documentation.

Q. In the course of reviewing these lab

results, do you recall comparing it to the background standards and having boron exceed the background?

A. Yes. Yes.

Q. Okay. And have you discussed that with your consultants?

A. I'm -- probably in general we've discussed all groundwater quality at upgradient and downgradient of the facility, yes.

Q. Have your consultants expressed any conclusions to you about the boron levels that we've just been discussing?

A. To the best of my knowledge, the main discussions we have, especially currently, are for the arsenic levels.

Q. Okay. And can you explain to me what Appendix 3 -- you referred to Appendix 3 detects?

A. Uh-huh.

Q. What is that?

A. Appendix 3 is the list that is in the 257 federal regulations of what's required for ash pond monitoring.

Q. Okay. And boron -- can you explain why boron exceeding background concentrations has not

triggered the same sort of assessment monitoring that arsenic has?

A. The way I recall the regulations for 257, Appendix 3 parameters are detection parameters, and if you have an exceedance or a detection in that, then you sample for the Appendix 4 list in the 257 regulations.

If any one of those parameters in the Appendix 4 assessment monitoring list exceeds the established background for your facility, that's your trigger for assessment action and moving on down the line for that.

Having that -- under the 257 rules as they are right now, having an Appendix 3 detection or exceedance is not the be-all end-all, you know, to take more action. They kind of hang their hat on the Appendix 4 parameters.

Q. Did you have an Appendix 3 detection or exceedance for boron?

A. I believe we did, yes.

Q. And when you went to do the Appendix 4 action, what did that entail for boron?

A. At all wells or which well?

Q. Well, let's start with AP-1 because that's

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the well we were referring to.

A. Boron is not an Appendix 4 parameter, so the -- as far as there was no Appendix 4 parameters, to the best of my knowledge, in AP-1 that exceeded in AP-1.

Q. So does that mean if boron is an Appendix 3 parameter, it doesn't trigger anything under Appendix 4?

A. The Appendix 4 sampling, the way I understand the regulations, the Appendix 4 sampling is triggered and required when you have certain detections and/or exceedances of Appendix 3 parameters, so we did have those in several of the wells.

Q. Which wells?

A. I believe one -- no. I believe we've had Appendix 3 detections or exceedances in AP-1, 2, 3, AW-3, and RW-3.

Q. And did you have -- but my understanding of what you just said, and tell me if I'm wrong, boron is an Appendix 3 parameter; correct?

A. Boron is an Appendix 3 parameter.

Q. So did you have Appendix 3 exceedances or detections for boron in any wells?

A. Yes, we have.

Q. Okay. What would that trigger? What sort of action would that trigger under Appendix 4?

A. Under the federal regulation it would trigger us to analyze for Appendix 4 constituents.

Q. Understood. And then you didn't end up having any Appendix 4 exceedances except for arsenic at AW-3; is that correct?

A. That is correct.

Q. Okay. All right. Thank you for walking me through that. That helped my understanding.

A. And there's even more convoluted in there about, you can return to detection monitoring, you know, and that's a whole other rabbit hole to go down.

Q. Right. Detention monitoring versus assessment monitoring?

A. That's the way it's referred to under the federal regulation, yes.

Q. All right. All right. And just to close this out because we have been talking about -- I have been talking about boron a lot.

A. Uh-huh.

Q. Did any of your consultants express any

conclusions about the -- about boron exceedances from -- or, recorded in the ash pond lab results?

A. Conclusions, no. No. I mean, to my knowledge, no. We've always -- the conversations I've had, the documentations that I've read with our consultants is, our next step is to address arsenic.

Q. Okay. All right. We can set aside 6.06 for now.

A. Okay.

Q. We have placed in front of you an exhibit that has been marked as 16.17.

A. Yes.

Q. Are you familiar with this set of documents generally?

A. Yes, I am familiar with these documents.

Q. And just to pin this down, can you turn to page 13611?

A. 13611?

Q. Uh-huh.

A. Yes.

Q. And does your name appear on this document as a cc perhaps?

A. Yes, it does.

it would pose less risk of groundwater contamination over a wet ash handling system; correct?

A. Can you rephrase that, please?

Q. Well, I want to just establish that CWLP, in response to a Violation Notice for groundwater violation, CWLP would be proposing things that would reduce the risk of groundwater contamination; right?

A. Correct.

Q. And one of the things they proposed was a dry fly ash handling system; right?

A. It was proposed by CWLP, yes.

Q. And the reason that CWLP would propose that is because it would pose less risk of groundwater contamination than CWLP's current ash handling system; correct?

A. I assume so, yes.

Q. And are you aware that CWLP proposed retrofitting a portion of the Dallman ash pond with a compliant liner?

A. I'm not aware of that.

Q. Okay. And I just have one last question and then my colleague and I will confer for a

Sierra Club vs CWLP. No. PCB 18-11 Deposition taken on January 23, 2019. Attorneys Mr. Wannier, Ms. Bugel and Ms. Williams.

STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, ERIC STALEY, deponent herein, do hereby certify that I have read the foregoing deposition and that it is a true and accurate translation of the questions asked of me, and the answers given by me, with the following change(s):

PAGE_____, LINE_____

CHANGE DESIRED_____

REASON FOR CHANGE_____

PAGE_____, LINE_____

CHANGE DESIRED_____

REASON FOR CHANGE_____

PAGE_____, LINE_____

CHANGE DESIRED_____

REASON FOR CHANGE_____

_____
ERIC STALEY

Subscribe and sworn to before me

this _____ day of _____,

A.D., 2019. _____

NOTARY PUBLIC

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STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, DONNA M. DODD, a Certified Shorthand Reporter and a Notary Public, within and for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken down by me to the best of my ability and thereafter transcribed, and that the attached transcript contains a true and accurate translation of my shorthand notes referred to.

Given under my hand and seal this 1st day of February, A.D., 2019.

_____

Certified Shorthand Reporter
and Notary Public
CSR # 084-003912

My commission expires:
May 19, 2022.

Attachment B

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BEFORE THE POLLUTION CONTROL BOARD

SIERRA CLUB, PRAIRIE RIVERS NETWORK, AND NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE,	)	
Complainants,	)	
vs.	)	Case No. PCB 18-11
	)	Enforcement-Water
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES, d/b/a CITY WATER LIGHT AND POWER,	)	
Respondent.	)	

Discovery Deposition of PATRICK J. BECKER, taken at the instance of the Complainants, on November 29, 2018, scheduled for the hour of 9:00 A.M., at 800 East Monroe, Fourth Floor, Springfield, Illinois, before Donna M. Dodd, Certified Shorthand Reporter and Notary Public, pursuant to the attached stipulation.

DONNA M. DODD, CSR
donnadoddcsr@att.net
(217) 652-2474

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Q. What is your title?

A. I'm the Environmental Health and Safety Manager.

Q. Okay. Have you ever given a deposition before?

A. I have not.

Q. You have not.

Okay. So just I'll give you a series of instructions. If you have any questions, let me know.

A. Okay.

Q. Just so you know, I'm sure your attorney told you, this is a formal legal proceeding, and as you know, you're testifying under oath. You have an obligation to answer all the questions truthfully. For the benefit of the court reporter, please answer out loud. She can't record nods.

If you don't understand a question, you can let me know.

A. Okay.

Q. If you answer the question, I'll assume that you understand it.

A. Okay.

Q. If you ever need a break whenever, you can

Q. And how long did you talk to her about?
A. Oh, ten minutes.
Q. Okay. And you said -- sorry, can you say your title again?
A. Environmental Health and Safety Manager.
Q. And what do you do in that position?
A. I have an office of roughly ten employees that I supervise. I oversee air, water, land, waste, industrial hygiene, safety, work comp, general safety and training.
Q. And when you say oversee, so what -- what are your day-to-day responsibilities exactly?
A. Well, obviously supervising ten employees but, you know, I'm the designated representative for Air, so all the air stuff is -- I'm kind of more involved in the air stuff than probably the other areas. That's because that was my specialty before I took the position of Environmental Health and Safety Manager. I was an Air Engineer I guess is what we'd say. So I did air for, I don't know, roughly about ten years before I moved into the EH & S Manager position. So the air stuff I'm probably, half my day deals with air stuff, and the other half kind of deals with land, waste, water,

safety, hygiene, work comp stuff.

Q. Okay. And who -- who -- do you oversee then the person that's chiefly responsible for the water, groundwater compliance work?

A. Yes.

Q. And who is that?

A. Sue Corcoran traditionally has been involved with the ash ponds, groundwater, landfill work. She's going to be retiring in the future, so Eric Staley has been cross-training with Sue probably for a year or so. So he's been getting more involved into the groundwater, landfill areas, and then we did hire a new employee, Jim Ketchum, about a month ago, and he's brand new, so he's --

Q. Okay.

A. -- he's just started. He knows where the bathroom is and he knows -- so he's just starting to scratch the surface. Those are the three employees that are going to be dealing with groundwater, but mostly Sue is the main person and Eric is probably the next -- next one with the expertise.

Q. Okay. And you said you've been in your current position for what, ten years?

A. Yeah. I think 11 when I was hired so, yeah, about nine years.

Q. And how long have you been at CWLP total?

A. Let's see, I was hired in 2002 and I left briefly to go with the State of Illinois and then I came back to CWLP. So probably about 16 years total I guess with CWLP.

Q. Okay. Great. I am going to I guess reintroduce -- we used it yesterday, but reintroduce it to you.

MS. WILLIAMS: Can you explain to him the numbering?

BY MR. WANNIER:

Q. Yes. So you understand the numbering, they're not sequential. We are using -- for the most part we are using exhibit numbers that correspond with the numbers CWLP provided to us in their productions.

A. Okay.

Q. There are a couple of exhibits that begin with the number zero, which are exhibits that are not included in CWLP's productions.

A. Okay.

Q. And this is the first of two exhibits that

fall into that category and this is 0.1, and I'll put that in front of you. And actually before we turn to that, so you -- before CWLP you said you worked for the State of Illinois?

A. No. Before CWLP I worked for the University of Iowa Hygenic Laboratory. I did ambient air quality stuff there, monitoring for the State of Iowa, and before that I was a Peace Corps volunteer.

So I don't know if you want to go through my history of work. It's up to you, but I did work for the state just for about -- about five months about two years ago.

Q. Oh, two years ago. Okay.

So what was that position?

A. Deputy Director Bureau of Air for Illinois EPA.

Q. Okay. And what was -- what generally was your responsibilities in that position?

A. Just assist Julie Armitage. She' the Director of Air -- or, the Bureau Chief for the IEPA, so I was more or less just her Assistant, and kind of oversaw upcoming CO2 regulations that were going to be hitting power plants, you know, just

Illinois Pollution Control Board had submitted about CWLP?

A. No.

Q. Okay. Do you remember helping to respond to the questions that were given here, that were proposed here?

A. I don't recall.

Q. Okay. If you can turn to page 182.

A. (So complied with request.)

Q. Do you recognize this map?

A. Yes.

Q. Have you seen this particular map before?

A. I have not.

Q. Okay. But you recognize that it -- what it shows?

A. Yes.

Q. Okay. In fact, this shows both the Dallman ash pond and the Lakeside ash pond; correct?

A. Correct.

Q. To the best of your knowledge, does this appear to be an accurate map?

A. Yes.

Q. And in looking at this, do you see where

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it says AP-3 with the red dot?

A. Yes.

Q. Do you see -- so that triangular space to the right of AP-3, what is that space?

A. Oh, the clarification plant?

Q. That is my question. That sounds like the answer to my question.

A. Okay.

Q. Is that part of the Dallman ash pond?

A. No.

Q. Is that part of the Lakeside ash pond?

A. No.

Q. Okay. So that's -- and what is in the clarification pond?

A. Part of the treatment process for the Lakeside ash pond and Dallman pond, there's polymers that are fed to the water before it enters the clarification pond. So whenever solids, trace solids that are leftover from the ponds, the polymer captures and it settles in the clarification pond. So it's a part of the treatment process of Dallman and Lakeside ash pond.

Q. Okay. So it does then contain coal ash residual waste products?

A. Very small trace amounts, yes.
Q. Okay. Is the clarification pond lined?
A. Not to my knowledge, no.
Q. Okay. And do you know where the clarification pond drains?
A. The clarification pond goes out Outfall 004 in our NPDES permit and it drains into Sugar Creek.
Q. Okay. And Sugar Creek, just for the record, is that sort of the dark blue line directly to the left of the clarification pond?
A. Correct.
Q. Okay. And do you see that white sort of rectangular space to the right of the top of the Dallman ash pond?
A. Yes.
Q. What is that?
A. This is the active cell of our landfill, FGDS landfill.
Q. Okay. And we can call it -- there are no other landfills; right, at the site?
A. Yes. This is the only active cell that we have in the landfill.
Q. Okay. How many cells total do you have at

out of the, I guess the lower right beige area?

A. I'm not sure. They just -- they've just told me that the way it's built and just the materials in there, it's -- it's hard to dry out, whereas these are a little bit smaller and they're easier to dry out so it's easier to get equipment in and then dry it out.

Q. Okay. And where does the coal ash from -- newly created coal ash from the plant, where is that put on this map?

A. For which units?

Q. Oh, we'll go one by one. Where is newly created coal ash from Unit 31 placed?

A. Thirty-one and 32 if you want to put them together, they're sister units is what we call them, the bottom ash is sluiced over on the southern portion of the Dallman ash pond, and the fly ash for Dallman 31/32 is sluiced over on the northern portion of the Dallman ash pond.

Q. Okay. So, first of all, in the northern part of the pond, do you see how -- that the left part of it is gray and the right part of it is green?

A. Uh-huh.

Q. Which portion is the fly ash from Unit 31 and 32 going to?

A. It will be the -- it's -- the pipe is on the -- it's on the west portion of the Dallman ash pond, so it's kind of that gray area is where it would immediately sluice to, and the material obviously moves in the pond, but --

Q. Okay. And where does ash from Unit 33 go?

A. Thirty-three's ash is -- it gets sluiced together, and it also goes off to the northern portion of the Dallman ash pond.

So the bottom ash and fly ash for 33 goes in the same pipe. It's the same pipe that can also be used for 31/32 fly ash as well. So all of 33's ash goes into the northern portion of the Dallman ash pond.

Q. Why is the -- why is the bottom ash and fly ash from Unit 33 mixed together with the fly ash from Unit 31 and 32?

A. The material 31 and 32 bottom ash is -- we sell that material or we can sell that material for shingles. Fly ash or bottom ash on 31, 32 is a product that -- that is used in shingle making. It's a bigger ash particle, so it has some

Q. Okay. And then Unit 4, where does the ash from Unit 4 go?

A. Yeah, Unit 4 is a dry ash handling system, so it's not on the map here, but all the ash is handled at the power plant, so there's no ash that gets sluiced over from Dallman 4.

Q. Okay. And we'll come back to that actually with another exhibit. I just want to make sure for the record you see these wells. They're sort of the circular red dots. Those are the monitoring wells that exist at the site; correct?

A. All except one. AW-3 now is RW-3. We had to -- that well was a compromised well, so they moved it I think 10 feet to the north. Now it's considered RW-3. So our Mod 3 Network is different on that well, but the other ones are correct.

Q. Okay. Yeah, and we'll talk about that as well. But in the meantime, just so I understand, what is the difference between AP and AW?

A. From my understanding when we set up the AP wells, I think they were just considered ash pond wells. Maybe that's why they used AP. I'm not 100 percent sure, but that would be my -- that would be my guess. And the AW-3 well, it was an

existing well in the landfill network, and so they just, because of its location, they decided it would make sense to basically use that well for not only the landfill, but also looking perhaps at the ash pond as well.

Q. Okay. And there were wells labeled AW-1 and AW-2 at some point; right?

A. Yes.

Q. Where were those wells?

A. I don't know.

Q. Okay. Were there any wells labeled AW-4 or AW-5?

A. I don't believe so, but I don't know.

Q. Okay. Do you know when the AP wells were installed? And you can go well by well.

A. I don't know exact dates. I know they started installing around 2010 and I think the last one they installed was AP-5 and that may have been in 2013 --

Q. Okay.

A. -- but I don't know exact dates.

Q. Okay. And the same question for the AW well with the understanding that it's no longer in service?

A. I don't know when that was put in.
Q. Okay. So you would say that the Dallman ash pond is still active then; correct?
A. Correct.
Q. Is the Dallman ash pond lined?
A. No.
Q. And how long has it been receiving coal ash, for how many years?
A. From the documents that I've seen, because obviously this was done well before my time.
Q. Uh-huh.
A. I believe that 33, when they built 33 is when they built the Dallman ash pond, so that was probably, you know, mid to late seventies; so --
Q. Okay.
A. -- that's my -- that's my best guess, but we don't -- I don't think we have any official documentation of when the pond was actually built.
Q. Okay. Where was the ash put before the Dallman ash pond was put into place?
A. I would guess the Lakeside ash pond.
Q. So the Lakeside ash pond precedes the Dallman ash pond?
A. Yes.

do -- well, I don't know for sure, but I know when we've done projects in the past they've had to dry out a lot of ash in this area to get it dry to be able to haul it off. So I assume that there has been some portion of the northern portion of Dallman ash pond that has been removed, but I don't know for sure.

Q. Okay. Would Sue Corcoran be more likely to know this?

A. Possibly. Possibly Bill. Possibly Scott Rogers.

Q. Okay. And Bill, you mean Bill Antonacci?

A. Bill Antonacci, yes.

Q. Okay. Lakeside ash pond, does Lakeside ash pond still receive coal ash?

A. No.

Q. What does -- does Lakeside ash pond receive any materials currently?

A. Yes. It receives lime sludge from our drinking water filter plant and the occasional blowdown from our scrubber waste water treatment plant.

Q. Okay. And the scrubber waste water treatment plant, what waste is that?

A. The --

Q. Let me ask that differently. What is blowdown?

A. The water from our scrubber system is treated and the treated material goes to the sanitary district or the low POTW, and then the blowdown or the ClariCone solids after treatment get mixed in. That's what blowdown is, it's the ClariCone solids.

Q. Okay. Is there still coal ash being stored in Lakeside ash pond?

A. The Lakeside ash pond has coal ash in it from past use, yes.

Q. Okay. And where is the coal ash in the Lakeside ash pond? Is it everywhere or is it only in certain parts of the pond?

A. My suspicion is it's probably everywhere.

Q. Okay. Is it underneath the newly added materials then?

A. I believe it is, yes.

Q. Okay. And Lakeside ash pond is not lined; correct?

A. Correct.

Q. Okay. Do either Dallman ash pond or

Lakeside ash pond have any sort of impermeable cap on top of them?

A. No.

Q. Has ash ever been removed in the Lakeside ash pond?

A. I don't know.

Q. Have any materials ever been removed from the Lakeside ash pond?

A. The lime sludge gets -- every year it gets taken to mine reclamation.

Q. And that's right, you mentioned that before. Thank you.

A. Uh-huh.

Q. Are you familiar with the location of the landfill?

A. The CWLP landfill?

Q. Yes, the FGDS landfill.

A. Yes. Yes.

Q. Where is that on this map? I'm sorry. Scratch that. We discussed this already. I will scratch that.

Can you turn to page 186 of this exhibit?

A. (So complied with request.)

which starts at Bates number 2027.

MS. BUGEL: We did use this yesterday.

BY MR. WANNIER:

Q. Never mind. So you have it in front of you, what's marked as Exhibit 6.5; is that correct?

A. Yes.

Q. Is this the report that you were referring to in the e-mail we just discussed?

A. Yes.

Q. Okay. And this report details the groundwater monitoring, that is the current that CWLP is conducting at the site; correct?

A. Yes.

Q. Does this report detail any corrective action being taken at the site?

A. I don't believe this one had any corrective action at this point.

Q. Okay. And why is that?

A. Because we are still assessing the nature and extent of any groundwater issues we have at the impoundment or at the -- yeah, at the ash pond, and once we know the nature and extent then we can move into corrective action.

Q. Okay. What does corrective action mean to

A. Well, in the CCR Rule, which we're following, we're following the -- the timeline in the CCR Rule, so we've moved into assessment monitoring, which are in the Appendix IV constituents, and we've monitored those for two rounds.

So we're getting with our -- Andrews, our groundwater consultants, and we're discussing with them on the next step of assessing the groundwater, the possible groundwater contamination.

Q. Okay. Do you believe you're still -- are you still operating under the Illinois Groundwater Regulations as well?

A. I know that's where a lot of this monitoring was put into place initially and we started with the state, and the state has been silent on that probably since 2014 or '15. And when the CCR Rule came in place, I think it was the state's intent to have a rule that basically mirrors the CCR Rule.

So as the industry, it's very difficult to try to follow two different types of regulations. It's just easier to be able to follow

one regulation, and I think that was what the state believed as well. So I think that was the intent of the 841 Rule that the state was trying to put together, so it's just easier in industry to follow one rule instead of two.

Q. Okay. Before the CCR Rule came into place, had you made any steps to determine whether there was groundwater contamination at the site?

A. Yes. We -- we met with the agency a few times to discuss what steps to take forward. Unfortunately, as I said, that's when the CCR Rule was proposed, and so it was kind of a difficult time to move forward from -- from my perspective on what we're supposed to be following, and I think that's why the state, more or less, just kind of went silent with it to allow us to follow the CCR Rule.

Q. Okay. Have you -- so putting aside the timeline of the CCR Rule, have you made any determination whether there's groundwater contamination at the site?

A. In accordance with the CCR Rule for RW-3, I think the arsonic level is above the background level. So in accordance with the CCR Rule, we have

determined that, in that one well there is an elevated arsonic level compared to background.

Q. Which well is that?

A. RW-3.

Q. Okay. And have you determined that that arsonic level is a result of coal ash contamination?

A. We have not.

Q. Okay. Have you determined that any other wells have elevated levels of any other constituent?

A. In accordance with the CCR Rule, the detection monitoring program, there are elevated levels of boron, TDS, and some other items, but for Appendix IV we have not -- we've only determined arsonic in RW-3.

Q. Okay. So have you -- you keep responding to my questions by saying in the context of the CCR Rule, and I guess I'm curious. Outside of the context of the CCR Rule, have you made any -- has your team or your office determined whether there's groundwater contamination at the site?

A. We are following the CCR Rule to determine if there is groundwater contamination at the site.

Q. Okay. Do you believe there is groundwater contamination at the site?

A. I'm not a groundwater expert. I'm not a geologist, a hydrogeologist. I'm relying on our consultants to lead us down the right path in determining if that arsonic issue is actually from the coal ash or not.

Q. Okay. And pursuant to your obligations under Illinois regulatory provisions, has your team, your office made any determination whether there's contamination at the site?

A. Can you rephrase the question? Team? What do you mean by team?

Q. Your office.

A. My office?

Q. Yeah.

A. We rely on Andrews Engineering to be our groundwater experts, so we rely on them to tell us if there's an issue, and then we'll proceed on what fashion if they deem that we need to.

Q. Okay. So same question then but for Andrews Engineering. To your knowledge, has -- well, let's just make it broader.

Has anyone in your office or any of

your outside consultants, including, but not limited to, Andrews Engineering, ever made a determination that there is groundwater contamination at the site in any context other than the arsonic elevated concentration?

A. I don't believe so.

Q. Okay. You can put that aside and we will put before you what is marked Exhibit 10.18.

(Exhibit No. 10.18 was marked for identification.)

BY MR. WANNIER:

Q. Do you recognize this document?

A. Yes.

Q. What is this?

A. Well, CCR Rule you have to certify that you're monitoring in accordance with the CCR Rule, and this document is, more or less, saying that we have a Groundwater Monitoring Program in place, and Andrews Engineering by Paul Van Metre, the P.E., Professional Engineer, has certified that we have a program in place.

Q. Okay. And if you'd turn to page 2 of this, which is Bates 26648, you see this list of five numbers?

you're no longer sampling as a result of the changes indicated in this letter?

A. Yeah. There are a handful that's, a lot of them were just non-detects and were just costing us a lot of money to keep sampling the state list, and it, just for consistency sake for us and to save money for the Utility and just to make our life a little simpler in the office trying to keep two lists going and two different regulations. As I said, it's easier to follow one regulation, so we wanted the agency to know we were just going to follow the CCR rule and the CCR sampling protocol.

Q. Okay. Are there any differences between this voluntarily sampling and the CCR sampling other than the slightly different list of constituents?

A. I don't think so.

Q. None that you're aware of?

A. None that I'm aware of.

Q. And what -- can you just point in this letter which constituents are no longer being sampled as a result of this change?

A. I don't think we listed what we were not sampling. I think we just told them what we were

assessed the CCR Rule and the ELG Rule, Effluent Limitation Guidelines Rule. We hired them a couple of times to look at different regulations and how we can remain in compliance. Part of that analysis was to look at the closure of the Lakeside ash pond, as well as the Dallman ash pond, as well as possibly retrofitting and kind of looking at all of the costs associated with that.

Q. Okay. And actually while we're on this topic, you used to operate something called the Lakeside power station; correct, and by you I mean CWLP?

A. Yes. Yes.

Q. Okay. Does the -- where did the ash from that coal plant go?

A. The Lakeside ash pond.

Q. Exclusively?

A. Yes.

Q. Okay. Sorry. So you were talking about retrofitting the Lakeside ash pond, and what would you be retrofitting?

A. Well, I think looking at either retrofitting for ash or lime sludge.

Q. What is entailed in retrofitting?

A. Probably just giving comments on a draft perhaps.

Q. Okay. Who is Christine, is it Zeman?

A. Correct.

Q. Who is she?

A. Deborah replaced Christine Zeman as the Regulatory Affairs Director.

Q. She's Deborah's predecessor?

A. Yes.

Q. So did she supervise you at the time --

A. Yes.

Q. -- this letter was sent?

A. Yes.

Q. Okay. And do you see where in this letter, and I'll try to find it for you. Oh, yeah. On Bates 1117 where it says Proposed CCA?

A. Yes.

Q. What is the CCA?

A. Compliance Commitment Agreement.

Q. Okay. And this indicates the CWLP proposed Compliance Commitment Agreement for the CWLP site; correct?

A. Yes.

Q. Did you actually enter into a CCA?

A. No.

Q. Why not?

A. From my recollection it was rejected. The IEPA rejected our proposed CCA.

Q. Okay. Do you remember why they rejected it?

A. From my understanding they rejected it because in a CCA you have to have everything remedied within one year, and obviously the work that we have to do at the ash ponds, if we decided to do some of the work that we discussed here, then the remedy would be longer than a year, and I think they just had to outright reject it because the CCA was going to be longer than a year.

Q. What needed to be remedied?

A. They just say, from my understanding the CCA, when you enter into a CCA you have a year to, if you want to call get in compliance or whatever you decide to do, has to be done within a year time frame and we could not do what they wanted in the CCA in a year time frame.

Q. Okay.

A. I think that's why they rejected it, but I don't know for sure. You'd probably have to talk

to them.

Q. Depose them?

A. Yeah.

Q. So when you say bring into compliance, what -- what needed to be brought into compliance that you were proposing to do here?

A. I think we just needed to just do more investigation onto the nature and extent of any groundwater contamination.

Q. Okay. Did you -- so you see a list of proposed actions here bulleted at the bottom of Bates 1117; right?

A. Yes.

Q. Have you done any of these actions? And actually we can just run through them one by one. Have you identified parameters to test by identifying the constituents of concern?

A. Yes, in accordance with the CCR Rule.

Q. Okay. Have you done so as part of your state regulatory obligations?

A. Well, since the CCA was rejected, we didn't follow our proposal.

Q. Okay. Have you conducted -- have you -- I guess conducted is the word, any geoprobe borings

the next step to discover the nature and extent of the arsonic in RW-3.

Q. Okay. Are you considering steps to, any steps to discover the extent of any other -- any other constituents that may be at elevated levels at the site?

A. I don't believe so.

Q. Okay. Have you -- well, I guess these next two are sort of subsidiary to having the borings in the first place, so we can skip those.

A. Uh-huh.

(Exhibit No. 4.10 was marked for identification.)

BY MR. WANNIER:

Q. Okay. You can put that aside and we will put in front of you what's marked Exhibit 4.10. Are you familiar with this document?

A. Yes, I am.

Q. And this document -- were you involved in the drafting of this document?

A. I'm sure that I looked at a draft and probably provided comments.

Q. Okay. Do you remember what sort of comments you might have provided?

Rule?

A. Correct.

Q. I guess generally speaking with this Compliance Commitment Agreement, do you believe that taking these steps would have resolved, assuming you'd been able to do that within a year of time, would have resolved any compliance issues with the state laws?

A. I don't know.

Q. Okay. I guess I'm trying to understand why you didn't just start on this process knowing that there was potential noncompliance with state law.

A. Well, I think we talked about it before. The CCR Rule came up. The state just stopped or went stagnant, or they were not wanting industry to have to follow two rules, so they just was trying to write the 841 Rule to mirror the CCR, so we'd just follow one set of rules to eventual remedy of whatever situation we were in.

So I think that's why we just went to full following the CCR Rule and whatever outcome the CCR rule we were going to follow.

Q. Okay. Has anyone at Illinois EPA ever

told you explicitly that state regulatory rules no longer apply to CWLP?

A. No.

Q. Okay. Have they told you that there were any changes made specifically to enable you to ignore Illinois regulatory provisions?

A. No.

Q. Have you had any conversations with anyone at Illinois EPA that support your belief that you don't need to comply with Illinois regulatory rules?

A. No, I have not had conversations with --

Q. Okay. So what's the basis for your -- the statement that you're making, that Illinois is sort of working to align itself with the CCR Rule and does not have separate enforcement interests?

A. I don't know about separate enforcement interests, but they drafted the 841 rule, and during the proposed making process when industry was there talking with them in open dialog with the public, we -- it was our understanding that they were trying to mirror the rules together just so they could have one set of rules for industry to follow.

Q. Okay. So there have not been changes to regulations that you're aware of that would have affected your obligations to comply with state law?

A. Yes, correct.

Q. Okay. So in your experience does dry ash handling result in less groundwater contamination?

A. I would have no experience in that.

Q. Do you know what dry ash handling is?

A. Yes. It's handling the ash, and instead of sluicing it to impoundments, it's just handling it dry initially so there's no sluice water or no ash going to impoundments.

Q. Okay. So if you -- and turning back again to this document, can you look at the paragraph underneath the bullets that begin pursuant to statements by Illinois EPA personnel? Do you see that?

A. What page are you on?

Q. Bates 1124. It's page 3.

A. Okay.

Q. And it's just under the bullet point list.

A. Okay.

Q. Do you see where it says Phase 1 activities as originally proposed are acceptable

identified?

A. I think this was the last correspondence we had with the agency on the VN with the state stuff.

Q. Okay. So I understand these are the last correspondence. I guess my question is, did CWLP do anything on its own to try to address the exceedances that were identified?

A. Well, no, but in 2014 -- we hired Burns & McDonnell in 2015 and started moving down the route of knowing that, I mean, closing ash ponds or retrofitting the ash ponds takes years and years and years, and we had to make sure we kind of understood what price tag we're talking about, and so that's the step in order to, before you do that, you have to assess the cost and assess the time frame and regulatory obligations and whatnot.

Q. Okay. So Burns & McDonnell was hired when in 2015?

A. I don't know.

Q. Okay. Has CWLP determined that the ash ponds at Dallman are responsible for the exceedances identified in IEPA's Violation Notices?

A. I'd have to rely on Andrews, our

A. I'm not aware, no.

Q. So to the best of your knowledge it was rejected for procedural reasons rather than technical substantive reasons?

A. That's my understanding, yes.

Q. Then finally with regard to the line of questions that Greg had for you about CWLP's obligations under state law.

A. Uh-huh.

Q. We had a fair amount of discussion about the CCR Rule and CWLP following the CCR Rule, and I believe opposing counsel reiterated a couple of times to you, now this doesn't change your obligations under state law; correct?

A. Yes.

Q. Can you just for us highlight a little bit of your understanding of the obligations under state law with regard to these units and what you do to comply with them?

A. Yes. I think initially when we received our Violation Notice from IEPA was on the 620 regulation, and then -- then I think they, the agency recognized that the 620s might not be the best approach for impoundments, so that's why they

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STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, DONNA M. DODD, a Certified Shorthand Reporter and a Notary Public, within and for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken down by me to the best of my ability and thereafter transcribed, and that the attached transcript contains a true and accurate translation of my shorthand notes referred to.

Given under my hand and seal this 11th day of December, A.D., 2018.

_____

Certified Shorthand Reporter
and Notary Public
CSR # 084-003912

My commission expires:
May 19, 2022.

Attachment C

Attachment: CwlpAtlas.jpg



Attachment D

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BEFORE THE POLLUTION CONTROL BOARD

SIERRA CLUB, PRAIRIE RIVERS NETWORK, AND NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE, Complainants,	)	
vs.	)	Case No. PCB 18-11
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES, d/b/a CITY WATER LIGHT AND POWER, Respondent.	)	Enforcement-Water

Discovery Deposition of WILLIAM ANTONACCI, taken at the instance of the Complainants, on January 16, 2019, scheduled for the hour of 9:00 A.M., at 800 East Monroe, Fourth Floor, Springfield, Illinois, before Donna M. Dodd, Certified Shorthand Reporter and Notary Public, pursuant to the attached stipulation.

DONNA M. DODD, CSR
donnadoddcsr@att.net
(217) 652-2474

A. It's a very -- it's like two pages, so I just read the whole thing and re-familiarized myself with it, and it is a very bare-bone --

Q. Okay.

A. -- plan.

Q. Did you bring any documents with you today?

A. No, sir.

Q. Okay. And you said you're an employee of CWLP. What is your position at CWLP?

A. My title is Technical Specialist III, which does not describe anything that I do very well. So I'm a Civil Engineer by degree and by license and -- I mean, do you want me to elaborate on what my job description is or --

Q. Yeah. Let's start with, maybe you can just describe what your responsibilities are in your position at CWLP.

A. The group that I'm in is Projects and Construction. That is in the hierarchial tree. I don't know what else to call it. I fall under that group of employees.

Q. What does Projects and Construction do?

A. We take care of all of the bigger projects

A. Yeah. I worked at Halverson Construction for about ten years. They're a bridge contractor and heavy and highway contractor here in town, here in Springfield.

Q. And, just briefly, you don't need to go into a lot of detail, but what was your work with Halverson?

A. Project Manager and did a lot of construction layout for them.

Q. Do you have any role in the sampling of groundwater at CWLP?

A. No, sir.

Q. Do you have any role in environmental compliance at CWLP?

A. Yes.

Q. What is that role?

A. Well, with the -- I would say everything that goes on over at the ash ponds, I make sure that we are in compliance with dust and no water leaving the site except through the outfalls.

Q. Uh-huh. Anything else?

A. We do weekly inspections under the CCR Rule. CCR inspections, I do that once every three weeks.

Q. Do you personally do that inspection?

A. Yes. Yes. And, I mean, in all actuality I'm over there almost always five days a week if I'm working. So, I mean, it's --

Q. So other than the inspections, what type of work are you doing by the ash ponds?

A. I am just kind overseeing and running -- kind of overseeing the emptying out of the lime ponds, the lime sludge ponds that come from the filter plant, and then also the ash ponds. We have two discharges there that need to be maintained, the material coming out of there, and we do that almost daily as -- well, several times a week is required for clearing the discharge points.

Q. And is there any other work that you're doing around the ash ponds when you go down there other than what you've just described?

A. We've done some improvements to the stability of the berms and the collection of water that is in the ponds.

Q. Sorry. Can you clarify what you mean by that last point?

A. Like on the CCR reports that we did, there were several locations where there were seeps or

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A. More just if it's -- since he's been in this position it's been minimal, very minimal.

Q. Understood.

A. Before that I would -- I mean, he was helpful to me and showed me a lot of the stuff and taking me around the plant and especially when I first started.

Q. And when did you start working at CWLP?

A. October 2nd, 2006.

Q. Do you work with Branden Powell in the course of your work?

A. Very, very minimally.

Q. And do you interact with Christine Zeman in the course of your work?

A. Almost never.

Q. Who's your direct supervisor?

A. Tom Wolf.

Q. And what's Tom Wolf's position?

A. He is the Superintendent of Projects and Construction I believe.

Q. So he's the head of the Projects and Construction Group?

A. Yes. Yes.

Q. Okay. Let's go back to some of the

activities that you described. First, you talked about the CCR weekly inspections.

A. Uh-huh.

Q. Can you tell me what -- what are you looking for when you conduct these inspections?

A. I'm looking for any -- first of all, looking for groundwater, looking for any settlement to the tops of the berms that would lead me to think that there is an issue, structural issue with the berm itself, looking for any discoloration of the ground. I know that -- and then, you know, we -- and I'm like, because I'm over there every day, it -- I'm able to kind of get a better idea of what's going on, and if like there's -- I don't know. I mean, since we've started it it's -- it's gotten a lot better so, I mean, I'm pleased. I'm proud of what we've done over there with it.

Q. And when you said you look for groundwater, are you just looking for water on the surface or how do you --

A. Well, I mean, you just -- you walk the berm and, I mean, when we first started you could drive -- you would drive along the ash line and there were some locations where the water -- where

you could see water on the ground and you could not see -- you could not really tell where it was coming from or you could not see a flow a lot of times but, I mean, you knew that there was some issue there. And we put in a couple of drain tiles along the berm next to the ash line above on the upper part and that alleviated that problem. We had the guy at the EPA. I think it was the EPA. It was the EPA, wasn't it?

MS. WILLIAMS: I can't help you.

MR. WANNIER: She can't testify unfortunately.

THE DEPONENT: Okay. I think it was the EPA. He came out and he looked at it and he concluded -- and this was when we -- I wouldn't say when we first started but, I mean, it's been a year and a half or two years ago maybe that he was out and he walked and said, yeah, it just kind of disperses and it's not running off into the creek or anything. It's just kind of -- I mean, it was such a low flow that -- and then over by -- we have another -- had another spot that we just cut a ditch and just directed the water to the clarification pond and then -- but then we also cut

where you found groundwater in your inspection, CCR inspections?

A. We would see -- this was damp at the beginning of our inspections. When I say the beginning of inspections, 2016.

Q. Okay.

A. It was damp on the west side. No, on the north berm, the west end of the north berm there was a couple, two or three damp areas.

Q. Sorry. Just for the record, the north berm of the Lakeside ash pond?

A. Yes, sir.

Q. Okay.

A. When we stopped -- when we stopped having that sump pump pumping into the east lime pond, which then discharges into the Lakeside ash pond, all of the leaks -- it was around that time that all of the leaking from this face stopped, the leaks and the damp spots.

Q. That are on the north side?

A. That on the north face, correct.

Q. And, I'm sorry, just so the record is clear, that are on the north edge of the Lakeside ash pond?

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A. Yes, sir.

Q. Okay. Did you ever find any groundwater in any of the ash impoundments at the site?

A. Like you're saying Dallman ash pond, Lakeside ash pond?

Q. Yeah.

A. There's water there all the time, yes. I mean, because we're sluicing water into the Dallman ash pond.

MS. WILLIAMS: But he says groundwater.

BY MR. WANNIER:

Q. But you were talking about groundwater.

A. I have no idea to know if there's groundwater over there.

Q. Okay. In your inspections where you were describing where you had found groundwater that was sort of sitting on the ground --

A. Uh-huh.

Q. -- were any of those areas inside of the ponds or were they all adjacent to the ponds?

A. They were all adjacent to the ponds.

Q. Okay. And do you know what the ash line is?

A. Yes. We have two active ash lines that

sluice ash, which means we use water to move the ash from the power plant across the road to two different outfall locations.

Q. Okay.

A. One is -- and they're both in the Dallman ash pond is where this ash gets deposited, real close to the mark of AP-2 except in the Dallman ash pond, that is where the boiler slag for 31 and 32 is deposited.

Q. Uh-huh.

A. And then real close to AP-1 within the Dallman ash pond is where the fly ash and bottom ash from 33 and the fly ash from 31 and 32 is deposited.

Q. Okay. And in your -- doing your CCR inspections, and you said you're looking for settlement to the tops of the berms?

A. That was one of the things they said to look for, yes. That if there is an issue with the integrity of the berm to where, you know, it's going to sluff or you'll have -- you're going to lose, if the berm is liquifying that you will see settlement to the berm as evidence that the berm is starting to shift or sluff off.

Q. And what's it mean when you say settlement to the berm?

A. Like if you notice that the berm has dropped down a foot or several inches in a couple -- or, in a spot or specific spot.

Q. Okay. So you just mean when the berm has literally -- it's lower than it was?

A. Correct.

Q. And did you find any areas where there had been settlement?

A. I don't know that I have. I know that there's areas -- there's one area in particular where the top of the berm is not at the same elevation all the way across and that's right by the trailer.

Q. And where is the trailer on this map?

A. The trailer is -- there's a green section with -- well, here. Let me see.

Q. Is it directly south of this green section that almost looks like a cell phone signal --

A. Yeah.

Q. -- icon?

A. Yeah, and I like that. Yes, it's directly south of there. It has not changed any, the top of

that. It does not appear to have changed much in the last three years. So we use that area to -- a lot of times we'll use that for, not a lot of times, but we'll have a dozer that goes over that and mowers that go over that, so it hasn't changed any.

Q. Okay.

A. So, I mean, that was -- you know, it's like, oh, this is what we're to be looking out for and the fact we haven't seen anything different to it leads us to think that it's fine; so --

Q. And you also mentioned looking for discoloration. Where are you looking for discoloration?

A. Well, anywhere on the ground. I mean, everywhere. When I said discoloration originally, we had -- on these damp spots, for example, had some staining on the ground and, you know, then that was one of the things that was put in CCR reports, then Andrews Engineering when they first came out with us, they pointed those out, that we should look for that.

Q. Right. Let me rephrase.

Have you seen any discoloration in the

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last year and a half?

A. No.

Q. You also mentioned as part of your job at the ash ponds that you maintain ash pond discharges; is that right?

A. That is -- no, that is not exactly.

Q. How would you describe what you do around, relating to the ash pond discharges?

A. Well, the ash pond -- are you saying like --

Q. I think you had said clearing. You said clearing the discharge points?

A. I think what I meant and --

Q. I'm not going to hold you to what you said earlier. I just want to understand what was involved.

A. Well, yeah. I think what I was saying was just making sure that we're not discharging anywhere other than the permitted outfalls --

Q. Right.

A. -- is what I meant.

Q. So how do you do that?

A. Well, just making sure that we have -- all of our roadways now have a cross slope and we're

continually, as traffic goes and erodes, we're continually putting that cross slope back in, that way all water, rainwater will come back into the pond.

Q. Uh-huh.

A. And that's probably the biggest thing we've done. And then like with the sump pit that we put in in our flood plain on the west side of the Lakeside ash pond, we're pumping that water back into the ash line that then goes to the Dallman ash pond.

Q. Uh-huh.

A. And, I mean, the drain tile that we put in that took care of all of the leaking from that, that toe back slope, I mean, that's all being outlet into the clarification pond.

Q. And where is the drain tile that you mentioned on this map?

A. The drain tile is -- I'll show it to you first and then you can help me craft a creative answer. It starts about right here and runs like that.

Q. So it starts just north of AP-4?

A. North of AP-4.

Q. And returns between the white and dark lines up to the bottom of the clearing pond?

A. Clarification pond.

Q. Clarification pond. Excuse me.

A. Yeah.

Q. Okay. Is that a surface installation?

A. No. We -- it's probably -- we dug that probably 18 inches deep roughly and there's two 8 inch tiles and it's right next to another tile that we did not know was there.

Q. And this is outside of the pond?

A. Correct.

MS. WILLIAMS: Can we take maybe a five minute rest room break?

MR. WANNIER: Yep.

(Whereupon there was a recess taken from 9:46:06 to 9:54:12 A.M.)

BY MR. WANNIER:

Q. We can go back on the record.

You said there was a drain tile already existing in the area where you built -- where the drain tile was added; is that correct?

A. Yes.

Q. Do you have any idea when that other drain tile was put in?

A. I do not. I do not know that.

Q. Do you know why it was put in?

A. Um, I mean, to prevent any leaking or any water that would get in there from leaving and directing it to the clarification pond. I mean, that's why it's there. I mean, I don't know if that's a typical. I mean, in some berm design or dam design embankment, it's not uncommon to put in what they call a French drain in, and that's kind of what that is.

Q. Uh-huh. Is the drain tile you put in more recently also a French drain?

A. Yeah. And French drain is just simply, you have -- you dig a trench and you have then the pipe and then porous material in there so the water can -- filters through the porous material and into the slots of the pipe. This pipe is not solid.

Q. Right.

A. It's slotted to allow the groundwater to get in.

Q. Right.

And when was the drain pipe installed

again?

A. The most recent one?

Q. The more recent one, yeah.

A. It was the summer and fall, I don't remember the exact dates, of 2017 I believe.

Q. Okay. And that pipe drains directly into the clarification pond?

A. Yes, sir.

Q. Now, when you first sort of witnessed the pooled water and discoloration on the west side of the Lakeside ash pond, do you know where that water was going?

A. There was -- I don't recall if there was any discoloration on the west side.

Q. Oh, I'm sorry. When you first witnessed the --

A. No. I mean, when the EPA was out there, he walked it and it just kind of went back into the ground and you could not see -- I mean, there was no clear path of where it was going, and it -- in many locations you didn't really ever see it leave. It was just kind of like a little puddle right there. I mean, it wasn't a heavy flow. I mean, the north side by the trailer, that berm, that was

a noticeable flow.

Q. Uh-huh.

A. On this side it was just -- just groundwater, I mean, water sitting on the surface.

Q. Okay. But that water on the surface, it was outside of the boundary of the pond; right?

A. Correct.

Q. Okay. So let's turn -- you also mentioned I think that you either performed or overseen, supervised berm stability improvements at the ash ponds; is that right?

A. Yeah. I mean, just we will remove trees before they get built up too big. I mean, we haven't had to dig out a berm or anything and recompact fill in that regards. When -- especially early on with the CCR, the -- we were getting some like gullies or just small like 4 inch/6 inch gullies starting at the top that weren't really in the berm. It was more in the material that was at the top of it for roadway, and it was just starting to cut and we would just go back and fill that in and make sure that we have the road sloped back into the Dallman ash pond --

Q. Right.

Lakeside pond quickly before we move on. You mentioned the noticeable flow on the north side of the Lakeside ash pond near the trailer.

A. Uh-huh.

Q. Do you know where that flow was going?

A. Where it's going?

Q. Where it was going?

A. Yeah. It's going to the clarification pond.

Q. Oh, so the time you first discovered it it was already going to the clarification pond?

A. Yeah. The road was -- because it hit the ditch and the way the road is sloped and there wasn't much of a ditch there. We have a ditch there now that there is no question that it is a ditch.

Q. Uh-huh.

A. But what was there before, yeah, it -- the road, the way it is configured, it just all kind of ran down there into the clarification pond.

Q. Okay. But then why -- so if it was already going to the clarification pond, why did you build the ditch?

A. They just wanted to -- I guess there could

Q. That's fair. And, to your knowledge, has ash ever been removed from the Dallman ash pond?

A. Yes.

Q. What were the times that ash was removed from the Dallman ash pond?

A. I'm aware anecdotally that it was taken to the Stanford overpass in Springfield for use as an embankment there and then --

Q. And when was that?

A. In the early two thousands, early to mid, maybe 2002 to 2004.

Q. Okay.

A. I'm not sure exactly when that project was, and then around 2008/2009, maybe as early as 2007, ash was removed for use of the MacArthur interchange on I-72.

Q. Any other times?

A. For fly ash, no.

Q. And just to clarify, both of these removals, the 2002 to 2004 and 2007 to 2009, were those fly ash?

A. Yes.

Q. Okay.

A. Well, fly ash and a composite mixture of

the bottom ash from 33 with the fly ash, because there's no way of separating those.

Q. Right. Because I think you said previously around AP-1 is where fly ash from Units 31 through 33 and bottom ash from Unit 33 are all deposited?

A. Correct.

Q. Okay. So that -- basically you're saying the ash for those two projects was taken from that northwest bit of the lake -- or, bit of the pond?

A. No. I think -- well, it was over -- I believe it was over like a thousand -- or, excuse me, a million tons of material. So it darn near encompassed that entire -- or, close, a great deal of that footprint.

Q. Understood.

A. I mean, I don't -- I mean, I wasn't over there, so I don't know, but I do know that it was stored, the ash before that MacArthur project started was stored several feet above the roadway.

Q. And do you know who would have more information on the removal of the --

A. I think Jeff Hillenbrenner would. I mean, he was -- that was his role at the time.

frequently, so we never really have a big stockpile of that.

Q. Okay. And when you say boiler slag are you referring to Unit 31/32 bottom ash?

A. Yes, sir.

Q. Okay. How often is boiler slag removed from the Dallman ash pond?

A. Currently we do it about once or twice a week.

Q. How much do you remove each time?

A. Currently about 300 tons a day for each event -- each day that we remove it, it's about 300 tons.

Q. And where does it go?

A. Right now we have two contracts. One is with Harsco Materials. They call it their Pawnee plant, which is right next to the Kincaid power plant. So I don't know if it's in Pawnee or Kincaid, but Harsco uses it with some of their abrasives, their abrasive products that they make, and then we also have a contract for -- they get about 15,000 tons a year, 18,000. And we currently have a contract with the Champaign County Highway Department for 2,000 tons annually that they take.

was actually -- I don't know that the picture is from 2014. The picture could be earlier than that, because of all the grey material that is on the south side of the Dallman ash pond, I don't believe that there is that much grey material there today.

Q. Why do you believe there's less grey material today?

A. Because, especially on the east side of that, there's water there.

Q. Got it.

Okay. Are you aware of any discussions or efforts to remove more of the fly ash in Unit 33 composite ash from Dallman ash pond?

A. Can you repeat that question? I want to make sure I have it right.

MR. WANNIER: Actually would you be able to read it back?

(Whereupon, the requested portion of the record was read back.)

THE DEPONENT: There were discussions but I don't believe anything serious. There's people that want us to pay them to take it away, which I'm like in no hurry to do. I have tried to -- I've tried to see if the mine would have any uses for it

and they do not. The mine being where we get our coal, and what would need to be done, and it's been -- when I first started it was more those discussions of talking to Sue saying, hey, what would we need to do to get rid of this material or, you know, whether it be lime or ash or whatever. So, I mean, it's nothing that where I foresee anything actually happening anytime soon.

Q. Okay. And actually just really quickly, for the 2002 to 2004 slag composite removal, that was for the City of Springfield's use or who?

A. I am not sure who the bidding authority or the -- I believe IDOT would have been --

Q. It would have been Illinois. Okay.

A. -- who oversaw that I believe.

Q. And did they pay CWLP for that material?

A. I have no idea.

Q. Okay.

A. I hope they did.

Q. Do you know whoever was the bidding authority for the MacArthur exchange project paid CWLP for 2007 to 2009 removal?

A. I do not believe they did.

Q. Did CWLP pay them?

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A. Well, that's yes.

Q. Okay. Perfect. I think we can move on to the Lakeside ash pond. Are you aware of any removal of ash from the Lakeside ash pond?

A. No, sir.

Q. So to your knowledge no ash has been removed from the Lakeside ash pond?

A. When we dig out the lime ponds, there may be some intermingling of the bottom of the pond that is ash with the lime --

Q. Uh-huh.

A. -- but that is, I mean, that's minimal.

Q. Right.

Are you aware of any efforts or discussions that have taken place about removing ash from the Lakeside ash pond?

A. I know it's been discussed as an option, as a possible option for the closure, but it -- and that was -- I haven't heard anymore about that. In fact, I've heard that any rulings are leading us to believe that we will not be removing any ash from the Lakeside ash pond.

Q. Okay. Do you know when those discussions occurred?

A. Within the last couple of years.
Q. Were they related to the CCR rule?
A. I don't know if that is accurate or not.
Q. Okay. And do you know why the determination was made that ultimately ash would not be removed from the Lakeside ash pond?
A. Well, if the government says we don't need to do it, we're not going to incur that cost of doing it.
Q. Right. Which government, federal or state?
A. You know, I don't deal with it well enough to know or I am not involved in that aspect of it enough to know to give you a good answer.
Q. That's fair. Thank you.
To your knowledge is there any ash at all in the FGDS Landfill?
A. I know that there is some that is capping the landfill, that is capping the north part of the landfill, and we have recently brought Unit 4 bottom ash over to cap that as a driving surface to allow us to get the lime sludge out of there, but I don't know. The level it's at now was the level it's been at since I've been over there, and I

it's been sluiced and mixed with the fly ash of 33. The Unit 4 bottom ash is not mixed with the Unit 4 fly ash.

Q. Right.

So is 100 percent of the boiler slag from Unit 31 deposited into Dallman ash pond?

A. To my knowledge it is.

Q. Okay. Is 100 percent of the boiler slag from Unit 32 deposited into the Dallman ash pond?

A. To my knowledge it is.

Q. Is 100 percent of the bottom ash from Unit 33 deposited into Dallman ash pond?

A. To my knowledge it is.

Q. And is 100 percent of the fly ash from Unit 31 deposited into Dallman ash pond?

A. Thirty-three?

Q. Thirty-one.

A. Thirty-one. Repeat that again then.

Q. Sure.

Is 100 percent of the fly ash from Unit 31 deposited into Dallman ash pond?

A. Unless there is an issue with the precipitators or just some equipment malfunction to where we have to -- yeah. I mean, still, that's

where it ends up.

Q. Yeah.

A. Even if we have to go in and vacuum anything out with Bodine, they have a vac truck, it would then be taken over to the ash ponds and deposited under water.

Q. Okay. And I'll just clarify. When I'm referring to fly ash, I mean the captured fly ash.

A. Oh, yes.

MS. WILLIAMS: The 100 percent makes people --

MR. WANNIER: Yeah. I mean, I'm trying to get --

THE DEPONENT: Yes.

Q. -- the waste streams established that way.

A. Correct.

Q. So is 100 percent of the captured fly ash from Unit 32 deposited in Dallman ash pond?

A. Yes, sir.

Q. Is 100 percent of the captured fly ash from Unit 33 deposited in the Dallman ash pond?

A. Yes, sir.

Q. Okay. Where does the bottom ash from Unit 4 go?

MR. WANNIER: Okay. Okay. So can we get like a five minute break?

MS. WILLIAMS: Uh-huh.

(Whereupon there was a recess taken from 10:45:56 to 10:54:44 A.M.)

BY MR. WANNIER:

Q. Here we are. So we're going to introduce to you what has previously been marked as Exhibit 4. -- 23 --

MS. BUGEL: Are you on 4.33?

MR. WANNIER: No. Actually we're going to hold off for now. We're going to -- I think this one was previously offered. Let me just -- yeah. I'm going to give you one that was previously marked as 4.33, and let me just find it. Here you are, 4.33.

Have you seen this document before?

THE DEPONENT: I do not believe I've seen this before, no.

Q. Okay. Well, let's just go through the responses on Bates page 1388.

A. All right.

Q. And it says on Question 2 for Dallman

Units 31, 32, and 33, all the bottom ash and fly ash is sluiced with raw lake water (handled wet). For Dallman Unit 4, all bottom ash and fly ash is handled dry. Do you see that statement?

A. Yes, sir.

Q. Is that still accurate?

A. Yes, sir.

Q. Okay. And then on -- if you turn to 1389 --

A. Okay.

Q. -- Question 5, if you look at the CWLP response, and obviously this is 2010 to 2012, three year average it says 79,000 tons of fly ash and 38,000 tons off bottom ash were created total among all the units. Do you see that?

A. Yes, sir.

Q. Are those -- and I understand that these things change year to year. Is that still roughly the amount of bottom ash and fly ash that is created?

A. I would think so.

Q. Okay. And part F where it says 48,000 tons of ash are sent to the coal mine.

MS. WILLIAMS: Wait. Can you read it

A. I believe that at the time that Unit 4 was built, the awareness of the benefits of getting rid of it dry, the technology was there to do that. I don't know that that was an industry practice when the other units were built to handle it dry.

Q. Okay. And I think -- I think we can skip that. Have there been any discussions you're aware of about changing the way ash byproducts are treated from Units 31 through 33?

A. I know that there has been some investigation done on that. I'm not sure what -- where it stands now, I'm not sure.

Q. Do you know who's doing that investigation or who did that investigation?

A. I do not, no. I'm not 100 percent sure.

Q. Okay. How did you hear about the investigation?

A. Just through meetings at CWLP.

Q. Okay. Yeah. You can put that document aside, and we're going to put in front of you what was previously marked as Exhibit 5.07. Here you are. Are you ready, Deb?

MS. WILLIAMS: No.

MR. WANNIER: Are you ready?

A. Correct.
Q. -- ponds?
A. Correct.
Q. Okay. Does it go to one in particular or --
A. No. Right now we alternate between the center and the west.
Q. Lime ponds?
A. Lime ponds, yeah.
Q. Okay. And why does CWLP send scrubber blowdown to the lime ponds as opposed --
A. I don't know.
Q. You don't know.
Okay. Has CWLP considered closing Lakeside ash pond?
A. I believe that they're aware that that's an option.
Q. Okay. Are there any current plans to shut it down?
A. Not that I'm aware of.
Q. Okay. You can put that aside, and we will turn to what again has been previously marked as Exhibit 23.85. And, Debra, just so you're prepared, we may also end up talking about 23.85A

Sierra Club vs. CWLP. No. PCB 18-11. Deposition taken on January 16, 2019. Attorneys Mr. Wannier, Ms. Bugel, and Ms. Williams.

STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, WILLIAM ANTONACCI, deponent herein, do hereby certify that I have read the foregoing deposition and that it is a true and accurate translation of the questions asked of me, and the answers given by me, with the following change(s):

PAGE_____, LINE_____

CHANGE DESIRED_____

REASON FOR CHANGE_____

PAGE_____, LINE_____

CHANGE DESIRED_____

REASON FOR CHANGE_____

PAGE_____, LINE_____

CHANGE DESIRED_____

REASON FOR CHANGE_____

_____
WILLIAM ANTONACCI

Subscribe and sworn to before me

this _____ day of _____,

A.D., 2019. _____

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STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, DONNA M. DODD, a Certified Shorthand Reporter and a Notary Public, within and for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken down by me to the best of my ability and thereafter transcribed, and that the attached transcript contains a true and accurate translation of my shorthand notes referred to.

Given under my hand and seal this 1st day of February, A.D., 2019.

_____

Certified Shorthand Reporter
and Notary Public
CSR # 084-003912

My commission expires:
May 19, 2022.

Attachment E

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BEFORE THE POLLUTION CONTROL BOARD

SIERRA CLUB, PRAIRIE RIVERS NETWORK, AND NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE, Complainants,	)	
vs.	)	Case No. PCB 18-11
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES, d/b/a CITY WATER LIGHT AND POWER, Respondent.	)	Enforcement-Water

Discovery Deposition of SUSAN CORCORAN, taken at the instance of the Complainants, on January 17, 2019, scheduled for the hour of 9:00 A.M., at 800 East Monroe, Fourth Floor, Springfield, Illinois, before Donna M. Dodd, Certified Shorthand Reporter and Notary Public, pursuant to the attached stipulation.

DONNA M. DODD, CSR
donnadoddcsr@att.net
(217) 652-2474

I'm doing another project, I would have looked at other items.

Q. Okay. Oh, so you didn't review any documents to prepare for this deposition?

A. Correct.

Q. I understand.

Did you bring any documents with you today?

A. I have a copy of my landfill regulations in Deb's office.

Q. And would it be helpful to have any other documents in here with you to assist you in the deposition?

A. I don't know what you're asking for.

Q. Fair enough. So you've already stated you're an employee of CWLP?

A. Uh-huh.

Q. Which is City Water, Light & Power; correct?

A. Correct.

Q. All right. What is your position?

A. I'm an Engineer III.

Q. And what are your responsibilities in that position?

A. I'm staff in the Environmental Health & Safety Office doing environmental compliance with regulations and permits.

Q. Any other responsibilities in that position?

A. You want something more specific than what I just said generally?

Q. Not more specific, just if there's anything beyond what you've just said generally.

A. No, that's it.

Q. What tasks do your responsibilities entail?

A. I file reports with the agencies. I do physical inspections of the power plant and the plant grounds. I do environmental programs. I -- it's such a huge thing. I interact with various agencies, varies colleagues, various governmental bodies. I mean, just --

Q. And did you have any responsibility for groundwater sampling at CWLP?

A. Yes. I did the groundwater sampling for many years.

Q. What years did you do the groundwater sampling for?

have anything -- other tasks that you were responsible for related to groundwater sampling?

A. Groundwater quarterly reports were submitted to IEPA and our results were eventually handed to our consultants for annual reports.

Q. And you reviewed the results yourself?

A. Yes.

Q. For what purpose did you review the results?

A. To fill in the report sheets and I eventually made spreadsheets of tracking the data, filling it in so we could look at that, make sure the laboratory provided all the data we asked for, that it was in reporting limits, that it was -- made sense.

Q. Did you review the results for the purposes of drawing any conclusions yourself?

A. No. That was for our consultants to do.

Q. Did -- how many years have you held your current position at CWLP?

A. I've done the same work since I've been there, so since I was employed July 1st of '88. Actually the internship started July -- I mean, August 1st of '86, so that needs to be corrected.

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Q. And before that?

A. Engineer I.

Q. And before that?

A. There were some Environmental Technician titles in there. I don't remember. I just never really paid attention to that.

Q. Are you -- would you describe yourself as in charge of environmental compliance for groundwater at CWLP?

A. No. I'm just staff.

Q. Who is in charge of environmental compliance for groundwater at CWLP?

A. I'm not sure what you're wanting to ask, because -- could you restate that? Because we do -- groundwater compliance is, I make sure the work is done and I'm just a staff person who has a supervisor, but when it comes to compliance and review and evaluation, that's consultants.

Q. And who is your supervisor?

A. P.J. Becker.

Q. Do you -- so let me start that over.

I understand from a previous deposition that you're retiring in the near future; is that correct?

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lower right-hand corner, the page numbers. Do you see your name on this e-mail?

A. Yes.

Q. Okay. So are you familiar with this e-mail?

A. I haven't read it since then. Okay.

Q. And this e-mail contains an attachment on the next page. Do you see that?

A. Uh-huh.

Q. And on the next page, page 182, are you familiar with this figure, this image?

A. Yes.

Q. Okay. And this image shows the CWLP facility; is that correct?

A. It shows the landfill and the ash ponds.

Q. And I'm just going to turn to the bottom of this. In the bottom left-hand corner is a small table that has Impoundment ID and Liner Type. Do you see that?

A. Uh-huh.

Q. And this explains -- or, this indicates that the Lakeside ash -- the Lakeside pond, it says no liner under liner type.

A. Correct.

Q. And is that accurate, to the best of your knowledge?

A. To the best of my knowledge it is.

Q. And for Dallman ash -- Dallman pond it says no liner under liner type. Do you see that?

A. Yes.

Q. And to the best of your knowledge is that accurate?

A. Yes.

Q. And if you look towards the top of the image there is a white rectangular space to the right of the Dallman ash pond. Do you see that?

A. Uh-huh.

Q. Do you know what that space is?

A. That's our active site for the landfill, Unit 2.

Q. And when you say Unit 2, does that also -- is that sometimes referred to as Cell 2?

A. No, it is not.

Q. Okay.

A. The green part is Unit 1. The other part, the two cells north of that is Unit 2. Of Unit 2 we have developed a portion of Cell 3, which is our active facility. It is the only lined regulated

A. It was just gyp, but we were permitted to add ash to bring up the contours when we were closing it.

Q. Do you know how much ash was added?

A. I do not.

Q. And can you explain what you mean by bring up the contours?

A. Because we were closing the cell before it had completed what would be like a final contour, to be able to have runoff, to be able to close the cell properly, we had to bring up the elevation to allow for just capping, to have runoff, so it was brought up to contours.

Q. Do you know -- when you reference bringing up the elevation, do you know by how many feet?

A. I don't remember.

Q. And do you know the source of ash that was --

A. It was all from our facility. We did not bring anything from offsite.

Q. And do you know if that was bottom ash or fly ash?

A. I don't remember.

Q. And when you say it was from our facility,

Q. Understood. Yep.

So I want to turn to the ash ponds for a second and just ask, has the ash generated at CWLP always been stored in the ash ponds? And if that question is not clear I can rephrase it a little bit. I'm just trying to figure out if, generally, did the ash ponds open at the same time as the boilers or did the ash go someplace other than the ash ponds prior to?

A. When USEPA was investigating ponds and they sent out surveys, I went and did -- I completed that survey for USEPA, and in there I was trying to determine when the Lakeside ash pond was built. All I found was in an aerial that was pre-'58 or right around 1958. Yeah. The date -- sorry, Donna, was 1958. I don't remember the month, and it showed just the original three cells that you see right there. Before that I --

Q. And I'm going to interrupt you for the record just to make the record clear what three cells you were referring to when you said right there. I believe you were referring --

A. The three cells against the dam.

Q. So one is white, one is green, and one is

A. I got a phone call from IEPA and they came to my office and we all gathered and went to the site to walk it down.

Q. Do you recall anything else about that meeting?

A. We just went outside and walked the facility.

Q. Okay. And then I'm going to turn to the next page in and turning specifically to 1103 and looking at the last full paragraph on the page this references several areas of apparent ongoing seepage were observed along the west berm of the Lakeside ash pond. Do you see where it says that?

A. Yep.

Q. Do you recall that seepage?

A. Yes.

Q. And then it goes on to say that seepage resulted in puddles in the road along the west berm. Do you see that?

A. Yes.

Q. Okay. And do you recall that seepage as well?

A. Yes, and I also would like to point out, it was not leaving our facility. It was on the

roadway, and EPA did walk down through the weeds investigating, looking to see if there was anything leaving the site. There was not.

Q. Had you been aware of the seepage prior to the inspection?

A. Yes. It had been documented in our CCR inspections, and it was actually -- has not been uncommon for that area to have some type of seepage.

Q. Do you know where the seepage is coming from?

A. Yes. The expansion -- the Lakeside pond right here, the original part was expanded over here, and then in '88 they raised the berm. That -- where that expansion was with that berm, they put a toe drain in. Actually we did this expansion and they had to go back later and put in a toe drain because we were getting some seepage. It was just that the construction of adding an expansion onto an existing berm that was not made very well. It was just a poor design. And so actually we put that toe drain in a couple of years later and actually we redid it this summer and there is no leakage now, so that's been corrected.

Q. And just to make sure this is clear on the record, when was the Lakeside ash pond expanded?

A. In -- I believe in '88.

Q. And when was the toe drain put in?

A. I don't remember. It may have been soon after because that -- that connection or that expansion was just not very good. I mean, it had to be fixed.

Q. And the -- and this inspection that we're talking about here was in 2016?

A. Correct.

Q. So it was -- so is it accurate to say the toe drain was put in but then more recently needed to be --

A. Over time it needed to be cleaned out and redone and that's what we did this summer.

Q. Got it. And when you say that's what we did this summer, what summer? What year are you referring to?

A. Eighteen.

Q. Okay. And the seepage itself would have been coming from the Lakeside ash pond; is that correct?

A. Yes. It would have been coming from the

water that would have been above that expansion part, so which is the Lakeside ash pond.

Q. And the water above the expansion, would that have ash in it?

A. There's -- there's ash in that pond so, yes.

Q. And I want to turn to page 1108 for a second, and I'm looking at photo number 7. Next to photo number 7 it says, ongoing work reported to be in support of efforts to clear vegetation from the west berms and areas below the Lakeside ash pond. Do you know why that vegetation was being cleared?

A. Yes. The CCR regulation requires vegetation to be removed or kept to 6 inches tall. That will eventually will be changed. But getting equipment down into this area is very difficult, and we -- once we got down there we noticed how wet it was and we ended up deciding that we needed to put a sump down there to control how wet it was.

Q. And turning just again back to page 1104, and the top paragraph on that page indicates that the work being performed was part of a continuing effort to clear the west berm and the area next to the creek of excessive vegetation, to allow better

access to those areas for inspection.

To the best of your recollection was the effort to clear vegetation for purposes of accessing those areas for inspection?

A. Yeah, part of the CCR. I mean, it requires the berms to be maintained in the rule, that the vegetation be kept down, and so we were working on that, plus that would give us better visibility when we do our inspections. So when we were down there, we ran into an issue that needed to be addressed.

Q. Okay. And so just to make sure the record is clear, the response to the seepage was rebuilding the toe berm --

A. Yes.

Q. -- is that correct?

A. The seepage that you see on that roadway, yes.

Q. Was there any other response to the seepage?

A. That was all we needed to do.

Q. Have there been any IEPA inspections since then?

A. Let's see. Yeah, I just had one.

MS. WILLIAMS: I'm thinking, you haven't forgotten that already.

THE DEPONENT: Yes.

BY MS. BUGEL:

Q. And has there -- has anyone in those inspections observed any evidence of seepage?

A. There was none to be seen on that roadway. It's -- there wasn't any.

Q. On that roadway. How about other areas?

A. The sump, we had this reengineered, designed, and it's maintaining, keeping that area dry.

Q. And that area refers to the muddy area --

A. Yes.

Q. -- in photo 7?

A. In picture 7.

Q. And photo 7 is not necessarily of the roadway; correct?

A. Correct. That is down the slope.

Q. And where is the roadway in relation to say the Lakeside ash pond that we were talking about?

A. Let's see. Probably if you go to picture 4, you see the ash line there. Okay. So this is

the expansion area. This is where we had the leaks. That's why you have the wetness on this road right here, but the sump is down in here where we were removing all of this vegetation.

Q. And just to make sure this is clear for the record, photo 4 is along the west berm of the Lakeside ash pond; correct?

A. Uh-huh. Yes.

Q. And the EPA inspection that you just referenced, did that inspect other areas besides the area in photo 7 and the area in photo 4?

A. It was my, not annual, but my regular NPDES permit inspection, so we went through the whole facility.

Q. And that would include all of the berms around both of the ponds?

A. And all my outfalls and the plant --

Q. And to the landfill?

A. -- the power plant.

No. The landfill is not an NPDES permit.

Q. Understood. And that inspection that you referenced that we were just discussing, when did that take place? 2018?

A. Yeah, it was this summer. It was --
Q. That's fine.
A. It was the end of September. Sorry.
Q. End of September of 2018?
A. Yes.
Q. Thank you.
A. Sorry.
Q. That's okay.
A. That's why I'm retiring. I'm forgetting.
Q. And just again referencing the incident discussed in Exhibit 4.05, did CWLP change any maintenance practices as a result of this incident of seepage?
A. We were already -- as you can see from these pictures, we are already maintaining maintenance. We were working on the sump, and we are proactive when we see something going wrong. We don't wait for an inspection. So when he came, he saw we are doing maintenance.
Q. Besides the incident of seepage discussed in Exhibit 4.05 and the response of rebuilding the toe drain, are there other incidence of seepage that you recollect at CWLP?
A. Yes.

Q. Can you describe those?

A. Yep. We -- if go to your map, again, the only other seepages that we have an issue with, the Dallman ash pond does not have any, and we inspect this every week just to let you know. But Lakeside ash pond, again, if you go, where you see that one arrow is by the word side where it points up, in that corner we have a weak spot there, and that also requires us to -- the area will get sort of soggy and leak. We maintain a ditch to drain any water that leaks out of that into the clarification pond.

EPA has seen that and they are fine with it. It keeps the water onsite. It does not leave the site, but we do go in there and we maintain the grass and the mowing and just keep a visual look on that. We have torn that apart and re-compacted it with dirt, re-vegetated it but, again, it's a design flaw when they did the expansion.

Q. And just to make sure this is clear for the record, you are referencing the larger brown Lakeside ash pond and an area --

A. In the northeast corner.

Q. And this also is -- you are the recipient of this letter, the addressee; correct?

A. Correct.

Q. And --

A. This is what -- the letter that stated that we needed to do a Groundwater Monitoring Program.

Q. And if you look -- let's see. Looking at the first paragraph in this letter, the second to last sentence of that paragraph it says: Also, a Groundwater Monitoring Program Plan should be established, with a quarterly monitoring plan and a background determination plan for monitoring wells AP-1, AP-2, AP-3, AP-4, AW-3 and background well. Do you see where it says that?

A. Yep.

Q. Did CWLP establish such a program?

A. We designed it. We had Andrews design it, yes.

Q. Can you generally describe that program?

A. It -- like I was saying before, it just listed the wells that we were going to sample for, how often we were going to sample, and the statistics that we would be using to evaluate the

(Whereupon there was a recess taken from 10:52:38 A.M. to 10:55:02 A.M.)

THE DEPONENT: Okay. These are not related to Appendix 4. This is actually about when Eric Staley started taking over looking at the arsenic issue that we saw in AW-3 or RW-3.

So this was an internal investigation looking to see, punching a couple of wells in the vicinity of -- vicinity of AW-3 to see if arsenic was a problem anywhere else because we weren't seeing arsenic anywhere else.

BY MS. BUGEL:

Q. Okay.

A. So this was just a separate project with Eric and Andrews.

Q. And -- okay. Okay. So is it accurate to say this is an internal evaluation?

A. Yes.

Q. And Bates page 27485 does use the terminology internal evaluation and that is -- okay. That's -- so that's why Bates page 27485 says Re: Internal Evaluation?

A. Uh-huh.

Q. Okay. And were these wells temporary?

A. That's what the T stands for, temporary well, how we labeled them.

Q. And are these wells, these temporary wells still in place?

A. Yes.

Q. Are they still being sampled?

A. I don't know. I can tell you that TW-3N became RW-3.

Q. And who would know if they're still in place? I'm sorry. Who would know if they're still being sampled?

A. Eric takes care of this program now working with Andrews and it's evolved into the CRR investigation.

Q. And do you know -- I'm sorry. Let me rephrase that. Has Eric updated you on the status of the program?

A. I don't know if there's a status other than just I haven't paid attention to the numbers.

Q. Understood.

A. I'm trying to step aside for retirement and let the new guys move in.

Q. Do you know if anything was sampled

like the power plant; right?

THE DEPONENT: No, it's not. These are EPA stations, E16 and EO-1. These are EPA locations.

MS. WILLIAMS: So it means monitoring stations?

THE DEPONENT: Yeah. They have points along the creek where they go and sample just because there's industrial users that would discharge or storm water. That's their locations, not anything we do.

BY MS. BUGEL:

Q. Okay. Okay. So turning the page to 27140, if you look at the third paragraph down this says, the boron levels at EOA-01 on Sugar Creek are clearly influenced by CWLP outfall discharges 003 --

A. Hang on. I'm lost.

Q. Well, I'm on 27140.

A. 140. Okay. Go ahead.

Q. And then the third paragraph down.

A. All right.

Q. And it starts, the boron levels at E0A-1. Do you see that?

A. Yep.

Q. On Sugar Creek are clearly influenced by CWLP outfall discharges 003 and 004 into Sugar Creek.

A. Correct.

Q. Do you see where it says that?

A. Yes.

Q. Do you have any reason to disagree with that statement?

A. No, it's true. We're the only source of boron going in the Sugar Creek by that -- oh, by that sampling point.

Q. And do you have an understanding of what was contributing to the high levels of boron at the outfalls?

MS. WILLIAMS: Objection. I mean, are we reading? I want to see where you're reading high levels.

MS. BUGEL: Okay. I can pull up a sentence for that.

MS. WILLIAMS: All right.

MS. BUGEL: Let me find where I am. Well, I can't figure out where I got this sentence from, so we're going to give me a moment here. Oh, back

a page.

THE DEPONENT: Okay.

Q. Flipping back to 27139, the third paragraph on the page says, the CWLP outfalls show the highest levels of boron for all locations shown. Do you see that?

A. When they're referring to all locations, they're talking about all the EPA sampling points.

Q. Uh-huh.

A. Yes, it makes sense that our outfalls were the contributor -- what was contributing to boron in the creek. We know that.

Q. Uh-huh. And do you have an understanding of what was contributing to boron in the creek from CWLP?

A. It's our ash ponds.

Q. Okay.

BY MS. WILLIAMS:

Q. Specifically how do the ash ponds contribute to the creek?

A. From the ash.

Q. But how did they get to the creek?

A. From 004 ash pond discharge.

MS. WILLIAMS: Thank you.

Q. In your experience is dry ash handling less risk of causing groundwater contamination than wet ash handling?

A. It depends on how the final product is handled. You -- if you're handling dry ash, inputting it into a landfill, I mean, it doesn't -- groundwater contamination results on how it's handled, not on -- I don't know how to explain it.

Q. How about, does the groundwater contamination depend on how the ash is stored?

A. Obviously, yeah. I mean, if you're going to put it in something that's lined or if you're going to put it on something that's pervious, of course.

Q. And if ash is kept dry when it's stored does that pose less of a risk of groundwater contamination compared to ash being stored wet?

A. Depending on what kind of a surface it's on again. If it's covered you don't have storm water infiltrating it and that reduces the ability to get water and having it leach. It's -- but if it's not covered, say we have a concrete pad and if the ash isn't covered then you get storm water running off, but we're not getting any groundwater

contamination because it's sitting on a concrete pad. But let's say it's sitting on the ground and if you have -- have not had it covered, you have storm water going through, you have the ability to leach and reach in the groundwater. If you cover it, that reduces any storm water getting to it, which reduces runoff and infiltration and you could prevent it from reaching the groundwater. Does that make sense?

Q. Uh-huh, that does make sense. Okay. I've jumped around again, so I need to see what I have left. I ended up deciding not to use that.

Okay. We are very close to being done. All right. We haven't covered 5.05. That's the one next to you that says USEPA.

(Exhibit No. 5.05 was marked for identification.)

BY MS. BUGEL:

Q. So we are passing you what has been marked as Exhibit 5.05 and I'll give you a chance to review it and let us know when you're done reviewing it.

A. Okay.

Q. And just -- are you familiar with this

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STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, DONNA M. DODD, a Certified Shorthand Reporter and a Notary Public, within and for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken down by me to the best of my ability and thereafter transcribed, and that the attached transcript contains a true and accurate translation of my shorthand notes referred to.

Given under my hand and seal this 20th day of January, A.D., 2019.

_____

Certified Shorthand Reporter
and Notary Public
CSR # 084-003912

My commission expires:
May 19, 2022.

Attachment F

Electronic Filing: Received, Clerk's Office 01/29/2020

BEFORE THE POLLUTION CONTROL BOARD

SIERRA CLUB, PRAIRIE RIVERS NETWORK, AND NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE,	)	
Complainants,	)	
vs.	)	Case No. PCB 18-11
	)	Enforcement-Water
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES, d/b/a CITY WATER LIGHT AND POWER,	)	
Respondent.	)	

Discovery Deposition of BRAD HUNSBERGER, taken at the instance of the Complainants, on January 23, 2019, scheduled for the hour of 8:30 A.M., at 800 East Monroe, Fourth Floor, Springfield, Illinois, before Donna M. Dodd, Certified Shorthand Reporter and Notary Public, pursuant to the attached stipulation.

DONNA M. DODD, CSR
donnadoddcsr@att.net
(217) 652-2474

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landfill.

Q. Uh-huh.

A. And maybe some ancillary documents related to those.

Q. And it would have been documents related to those three major reports?

A. That's correct.

Q. Okay. Any other documents?

A. No.

Q. Okay. And did you bring anything with you today?

A. I did not.

Q. Did you review any CWLP groundwater reports?

A. Can you define a groundwater report?

Q. Did you look at any annual groundwater reports that have CWLP headings on them?

A. No.

Q. Okay. And did you meet with your attorney?

A. Briefly on the phone.

Q. For about how long did you talk?

A. Seven, eight minutes.

Q. Okay. And you said you currently work at

Andrews Engineering. What is your current position?

A. I am the Director of Hydrogeological Services.

Q. And how long have you been the Director of Hydrogeological Services?

A. About 20 years.

Q. Okay. What are your responsibilities in that position?

A. The responsibilities include design and implementation of all kinds of hydrogeologic investigations and assessments, overseeing professional and field staff, report reviews, document reviews that the staff produces, budgetary management and proposals and general client relations.

Q. For that first responsibility, the designing and overseeing of I guess general projects, is that fair, whatever projects Andrews Engineering has?

A. Hydrogeologic related, yes.

Q. And, well, I guess first let me ask, for how long have you been working with CWLP at Andrews Engineering?

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there.

Q. Do you recall roughly whether wells were -- or, how many wells were installed around the same time as this 1989 overall project?

A. No.

Q. Okay. And what's the next project for CWLP that you do recall after, understanding that memory is a fuzzy thing?

A. 2011.

Q. Okay.

A. When we were retained to provide the groundwater monitoring program for the impoundments.

Q. And after that?

A. That's been somewhat continual since that time. We've done work in 2012, '13, '14, basically every year since that time with respect to the impoundments, including up to and now.

Q. So would it be fair to say that Andrews has effectively done consistent work for CWLP since 2011?

A. For the most part. There may be periods in there where we didn't do some work, so it was on an as needed basis.

impacted by any of the impoundments at the landfill -- I mean, not at the landfill, but any impoundments within that compound.

Q. And the purpose of this groundwater monitoring plan was to monitor groundwater -- impacts to groundwater from the Dallman ash pond; is that correct?

A. No. That's not what the EPA document says.

Q. What does the EPA document say?

A. The EPA document says from the impoundments.

Q. So does that include the Lakeside ash ponds?

A. I believe so.

Q. So if -- is it your belief that the comparison between the background wells, AP-4 and AP-5, and the four downgradient wells capture any contamination from the Dallman ash pond?

A. Yeah. It would be representative of the groundwater quality flowing beneath the Dallman ash pond, yes.

Q. And specifically if you were to compare AP-4 and AP-5 to the other four wells, that would

indicate the impact of the Dallman ash pond on groundwater concentrations, the various -- various contaminants; correct?

A. It will show variability in groundwater quality from background to downgradient, yes.

Q. And would it also show the variability and the quality resulting from the Lakeside ash pond?

A. Yes. Because of the location of the Lakeside ash pond, it's actually an upgradient location to the Dallman ash pond.

Q. Uh-huh.

A. There's not room in there between the two lakes to monitor a difference in groundwater quality, so one has to put the wells on the periferia of the downgradient location.

And so the answer is, it can, distinguishing between which one, it potentially could influence. The groundwater quality is much more difficult.

Q. Right. So it's difficult to distinguish between Dallman and Lakeside ash ponds, but you -- the difference between the upgradient and downgradient wells identified on this map on Bates 182 would tell you the contribution, the collective

contribution of those two ash ponds to the groundwater quality?

A. Yes.

Q. In your view would any of the wells on this map capture any groundwater contamination that might have come from the landfill area? And by landfill area I just want to make sure that we're in alignment. I'm referring to the FGDS landfill, both units that are immediately to the east of the Dallman ash pond.

A. It's possible. AW-3 was an assessment well for the landfill. It's a dual purpose well. Is it listed?

Q. Yeah. I see AW-3.

A. Yep.

Q. I shouldn't write on my exhibit.

A. But based on potentiometric surfaces, it's unlikely that anything is affiliated with the landfill in that well.

Q. And what about the potentiometric surfaces causes you to reach that conclusion?

A. Because the groundwater flow at that direction is straight north or even a little bit to the northeast.

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went up; correct?

A. No.

Q. If AP-5 generally has higher -- or, has higher concentrations of various metals than AP-4, is that what you're saying?

A. It does, yes. AP-5 is in a location that is more representative.

Q. Okay. And what about AP-5 makes -- what of the location of AP-5 makes it more a representative sampling of background quality?

A. Because there's no potential influence from the impoundments, and that groundwater is moving towards the north/northwest at that location and that's what's coming into the facility. So that can contribute to what we see in our downgradient monitoring wells.

Q. Are there any other possible sources of groundwater contamination that you're aware of that might be impacting any of the wells depicted on Bates 182?

A. Other than the existing impoundments that are out there?

Q. Correct.

A. No.

there's existing information that we also utilized over here that the data --

Q. And just for the record, so the record is clear, when you say over here you mean in the area of the Dallman ash pond?

A. That's correct. At that particular time that wasn't the focus; however, we did evaluate that as a whole to understand what was beneath the FGDS facility. The geology doesn't just stop at the periferia of the landfill.

Q. Right. So you wanted to understand the entire site even though you were focussed on the landfill?

A. That's correct.

Q. Okay. Did you work with anyone at CWLP to help you determine the hydrogeology of the site?

A. No.

Q. I'm going to now offer what has previously been marked as Exhibit 10.15. Do you recognize this document?

A. Yes.

MR. WANNIER: Are you ready?

MS. WILLIAMS: One second.

MR. WANNIER: Can you preserve the time?

essentially have the same source material. We would expect to see groundwater quality very similar to all the wells that are on the periferia. This one was different by multiple parameters. One of the things that we look at is potential shallow groundwater, surface groundwater infiltration vertically along the annular seal of a well.

It's not uncommon, especially for older wells, that the annular seal is not fully hydrated or was installed correctly or something happened to where it was no longer sealing like it should have.

So it's very common practice in that situation to replace the well and make sure that the data is good instead of speculating whether the data is good.

Q. Understood, and that makes perfect sense to me.

Do you have any reason to doubt the -- or, to believe that the integrity of RW-3 may have been compromised?

A. No.

Q. And RW-3 has had similar readings in terms of the parameters that its finding since its been

installed; correct?

A. Similar, yes.

Q. So why do you think RW-3 is continuing this pattern of having different parameters detected at that site?

A. It may be influenced by the ash ponds. That's entirely possible.

Q. Might it also be influenced by the landfill?

A. I haven't seen characteristics that would indicate that. I don't believe so, and based on the potentiometric surfaces and the hydraulic heads that I believe are there, it's unlikely.

Q. Right. But AP-1 would be impacted by the ash ponds; correct?

A. Are you inferring that -- are you speaking hypothetically or are you making a statement?

Q. I'm asking whether you believe AP-1 might have -- the concentrations detected in AP-1 could be influenced by the ash ponds?

A. Yes.

Q. Okay. And AP-1 has substantially different readings than RW-3; correct, in terms of the parameters being detected?

other deposits do.

Q. So you would not expect to see contaminants flowing through the lower cohesive deposits?

A. If they are, they're really not going anywhere very quickly. You're going to get your largest migration or your fastest migration going through the basal sand deposit.

Q. What company designed the well monitoring locations for the landfill?

A. Patrick Engineering.

Q. And if you look at the top of page 34 -- 13462, do you see that AW-3 is listed as one of the assessment monitoring wells in the lower cohesive deposit?

A. I do.

Q. Could that explain why it has different parameters from AP-1 through AP-3?

A. That's a possible explanation. Remember, I said that the hydrogeologic variability can play into that, what we're seeing. However, that well is screened on top of the bedrock, so realistically it is at the same interval as the basal sand; however, the previous engineering company decided

collectively, the Lakeside and Dallman ash pond together are responsible for higher groundwater contaminations that have been seen in the downgradient wells that are part of this monitoring program?

A. I think there are some influences to the groundwater quality. An exceedance of a background concentration does not necessarily imply contamination. It's just being influenced.

Q. Do you believe that the Dallman and Lakeside ash ponds collectively are responsible for any change in concentrations between the upgradient and downgradient wells at the impoundments?

A. To a limited extent, yes.

Q. Why is it to a limited extent?

A. Until we do further assessment it's to a limited extent.

Q. Do you have any reason to believe that something else might be causing that change in concentrations of the parameters upgradient and downgradient wells?

A. No.

Q. And you're aware that the downgradient wells have registered multiple exceedances of the

Q. That is a better way to phrase it. Thank you very much.

And so any mitigation would only occur around Well AW-3 then under -- pursuant to the CCR rule; is that correct?

A. That is correct.

Q. And there are no plans to assess the scope of contamination or to mitigate that contamination around wells AP-1, 2, or 3 that you're aware of?

A. Not that I'm aware of. It's not necessary under the CCR Rules.

Q. Did you previously discuss the possibility of mitigating exceedances at any downgradient wells of the Dallman and Lakeside ash ponds with CWLP?

A. We previously discussed assessing those concentrations. We never talked about actual mitigation at that point.

Q. Understood. And when you talked about assessing the contamination that was an initial step to determining mitigation, did those conversations include the AP-1 and AP-2 and AP-3 wells?

A. They originally did, and then when I feel that the site was pushed into the 257 Rules, then

it was no longer necessary.

Q. And the 257 Rules is the CCR Rules?

A. They are the CCR Rules.

Q. These previous discussions, were they pursuant to any Notices of Violation that CWLP received from Illinois EPA?

A. I'm sure it was related.

Q. Did you discuss the Notices of Violation with CWLP?

A. To some extent I'm sure. That Notice came out in 2014. That's been quite a while.

Q. Understood. That -- and just so the record is clear, we're referring to the Notice of Violation issued by Illinois EPA to CWLP; correct?

A. Yes.

Q. And your discussions with CWLP about the possibility of assessing the scope of contamination at Wells AP-1, AP-2, and AP-3 were related to those Notices of Violation; correct?

A. That's an assumption. I know they were related to the data that we were seeing.

Q. That's fair.

A. Okay.

Q. When did those discussions occur?

way.

Q. Right. That's fine. I just -- it's possible that they might have asked you to assume this for your --

A. No.

Q. They did not?

A. No, they did not.

Q. Has there been any investigation of the extent of the contamination plume from the ash impoundments?

A. The alleged contamination plume?

Q. Yes, the alleged contamination plume.

A. The geoprobe locations are staked. The brush entries that were in the way have been cleared. We are waiting for a break in the weather and access because of all of the precipitation events, and we're ready to do that.

Q. But that's just in the area around AW-3 -- RW-3; correct?

A. That's correct.

Q. Has there been -- have there been any efforts to determine the scope of the alleged contamination plume in the area of Wells AP-1, 2, or 3?

A. I think I said before that wasn't necessary so we're not.

Q. Okay.

A. It's not required by the 257 Rules so we're not doing it.

Q. Understood.

A. I take that back. I'm not planning on it going forward. If they decide that they want to that's --

Q. CWLP can make their own decisions?

A. Yes.

Q. I understand. You said previously that conversations between you and the IEPA and presumably CWLP, although I'm not sure, resulted in a conclusion that some of this scope of work would not be necessary because of the CCR rule. Is that -- is that accurate?

A. That's a fair statement, yes.

Q. Okay. What were those conversations?

A. The Bureau of Water is in charge of the 841 regulations. They specifically want to get a set of rules that are consistent with the 257s, generally consistent with the 257s so that there are not multiple programs dictating what is going

A. Well before dates were even set up for this process.

Q. Okay. Has anyone classified the groundwater under the Dallman and Lakeside ash ponds as Class 1 to your knowledge?

A. Not to my knowledge, not under the impoundments.

Q. Has anyone classified any groundwater anywhere on the CWLP site as Class 1 groundwater?

A. I believe so.

Q. What area has been classified as Class 1 groundwater?

A. I think underneath the landfill itself.

Q. Underneath the landfill?

A. Yes.

Q. And who classified that groundwater as Class 1?

A. I believe that was presented in the Patrick application.

Q. Patrick Engineering?

A. Yes.

Q. Has Patrick Engineering classified any groundwater as Class 1 other than the groundwater directly beneath the landfill?

A. Not that I'm aware, but I don't know the exact wording that they would have used in their application.

Q. Has anyone classified any groundwater at the site as anything other than Class 1?

A. I recall reviewing where there was a discussion with respect to, there were variable classes based on the criteria for 620. There are areas out there that have hydraulic conductivities that are less than 1 x 10 -4 centimeters per second.

Q. But I would just say the whole sentence again, because I'm not sure that the sentence was heard.

A. Okay. There are areas out there geologically that hydraulic conductivities that are less than 1 x 10 -4 centimeters per second. That's one of the stipulations for classification between Class 1 and Class 2. We know those areas exist, but there's also areas out there that have hydraulic conductivities greater than that. So by definition there are areas that would meet Class 1 and there are areas that would meet Class 2. It becomes too convoluted to try to identify where

MS. WILLIAMS: Okay.

THE DEPONENT: In discussion but not -- not formally, meaning nothing was ever submitted to a state entity saying it's a Class 2 groundwater. I've had discussions with CWLP staff regarding classification of groundwater out there.

BY MR. WANNIER:

Q. And what were those discussions?

A. Just simply, was it a Class 1 or Class 2, and those were the discussions.

Q. Yeah.

A. And again we come to the same conclusion, there are both based on the criteria under 620.

Q. And so when you say it's easier to just refer to them as Class 1, what do you mean by easier?

A. It's too difficult to go out there and say, these wells screened in the lower cohesive unit are Class 2 wells. That's Class 2 groundwater. Anything in the basal sand is a Class 1. Anything that's in the creek fill is a Class 2. It becomes excessively complicated to do that, so I'm sure with the Patrick part of the application that it was all assumed to be Class 1.

Q. Do you think that's a reasonable assumption to make?

A. It's reasonable. It's not necessarily the most accurate, but like I said, it becomes too convoluted to do otherwise.

Q. Right.

But it would be too hard to distinguish between groundwater that's Class 1 and groundwater that's Class 2?

A. Very.

Q. Sorry?

A. Very difficult to distinguish.

Q. And therefore it's easier to refer to as Class 1 because that's the more stringent standards?

A. Yes.

MR. WANNIER: Okay. No further questions.

MS. WILLIAMS: I don't have any follow up. Thank you. We will reserve. We're done.

(Deposition concluded at 1:02 P.M.)

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STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, DONNA M. DODD, a Certified Shorthand Reporter and a Notary Public, within and for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken down by me to the best of my ability and thereafter transcribed, and that the attached transcript contains a true and accurate translation of my shorthand notes referred to.

Given under my hand and seal this 1st day of February, A.D., 2019.

_____

Certified Shorthand Reporter
and Notary Public
CSR # 084-003912

My commission expires:
May 19, 2022.

Attachment G

Electronic Filing: Received, Clerk's Office 01/29/2020

BEFORE THE POLLUTION CONTROL BOARD

SIERRA CLUB, PRAIRIE RIVERS NETWORK, AND NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE,	)	
Complainants,	)	
vs.	)	Case No. PCB 18-11
	)	Enforcement-Water
CITY OF SPRINGFIELD, OFFICE OF PUBLIC UTILITIES, d/b/a CITY WATER LIGHT AND POWER,	)	
Respondent.	)	

Deposition of BRAD HUNSBERGER, taken at the instance of the Complainants, on September 9, 2019, scheduled for the hour of 10:30 A.M., at 800 East Monroe, Fourth Floor, Springfield, Illinois, before Donna M. Dodd, Certified Shorthand Reporter and Notary Public, pursuant to the attached stipulation.

DONNA M. DODD, CSR
donnadoddcsr@att.net
(217) 652-2474

And are you taking any medication that might affect your memory?

A. No.

Q. Okay. So I'll introduce what we'll mark -- what we will mark as Exhibit 0.04.

(Exhibit No. 0.04 was marked for identification.)

BY MR. WANNIER:

Q. Do you recognize this document?

A. Yes.

Q. Could you please describe what it is?

A. It's the Notice of Deposition for today.

Q. Okay. You can put that aside.

MS. WILLIAMS: For -- if we're going to enter this in the record can we also ask him when he first saw this document?

BY MR. WANNIER:

Q. Oh, yeah. When did you first see this document?

A. This morning.

Q. Yes.

MS. WILLIAMS: Okay.

MR. WANNIER:

Q. What did you do to prepare for this

deposition?

A. I reviewed the expert reports from Mark Hutson from March. I reviewed my response to that and I reviewed my transcript from earlier in the year --

Q. Uh-huh.

A. -- and that is about it.

Q. Okay. Did you review any other documents that you can think of?

A. I did review the Kleinfelder document and the Flood Investigation Study for Sangamon County.

Q. Okay. Sorry. Just so the record is clear, are you aware that Mark Hutson filed a Rebuttal Report after you filed your report?

A. Yes.

Q. Did you review that document as well?

A. I did.

Q. Fair enough.

And any other documentation you can think of?

A. No.

Q. Has your title at Andrews Engineering changed since January of this year?

A. Yes.

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BY MR. WANNIER:

Q. Do you recognize this document?

A. Yes, I do.

Q. And what is it?

A. It is the Response to the Supplemental Expert Report of Mark Hutson authored by me.

Q. Okay. Can you describe generally the purpose of your report?

A. Mark had provided -- Mr. Hutson had provided several items in his previous report that I necessarily didn't agree with or thought it needed expanded upon, so I was addressing those items that I viewed that.

Q. Okay. And actually turn to page 1, which I guess is the second page of the document but it is marked as a one at the bottom.

A. Yes.

Q. This is your introduction. If you'd turn to the second paragraph, do you see where it says at the very end of it, the items discussed below are those that are incomplete, requiring additional instruction, misleading, or inaccurate?

A. Correct.

Q. Do these items constitute the entirety of

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STATE OF ILLINOIS)
)
COUNTY OF SANGAMON)

I, DONNA M. DODD, a Certified Shorthand Reporter and a Notary Public, within and for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken down by me to the best of my ability and thereafter transcribed, and that the attached transcript contains a true and accurate translation of my shorthand notes referred to.

Given under my hand and seal this 19th day of September, A.D., 2019.

_____

Certified Shorthand Reporter
and Notary Public
CSR # 084-003912

My commission expires:
May 19, 2022.

Attachment H

Exhibit D: Violations of Illinois Class I groundwater standards at the CWLP Site. This table does not include pH violations.

Exceedance	Well	Pollutant	Class I GQS (mg/L)	Sample Value (mg/L)	Collection Date
1	AP-1	Arsenic	0.01	0.0141	8/23/12
2	AP-1	Arsenic	0.01	0.158	2/26/14
3	AP-1	Boron	2	14.6	2/22/12
4	AP-1	Boron	2	10.4	4/25/12
5	AP-1	Boron	2	15.2	8/23/12
6	AP-1	Boron	2	4.3	11/28/12
7	AP-1	Boron	2	3.9	2/21/13
8	AP-1	Boron	2	7.76	5/23/13
9	AP-1	Boron	2	14.7	8/28/13
10	AP-1	Boron	2	18.9	11/20/13
11	AP-1	Boron	2	17.2	5/20/14
12	AP-1	Boron	2	18	8/26/14
13	AP-1	Boron	2	17.9	11/21/14
14	AP-1	Boron	2	17.9	2/24/15
15	AP-1	Boron	2	15.7	5/28/15
16	AP-1	Boron	2	17.5	8/20/15
17	AP-1	Boron	2	18.8	11/13/15
18	AP-1	Boron	2	16.1	2/26/16
19	AP-1	Boron	2	17.2	5/13/16
20	AP-1	Boron	2	17.9	8/4/16
21	AP-1	Boron	2	17.3	11/18/16
22	AP-1	Boron	2	22.5	2/16/17
23	AP-1	Boron	2	13.9	5/31/17
24	AP-1	Boron	2	19.4	8/2/17
25	AP-1	Boron	2	20.3	11/9/17
26	AP-1	Boron	2	15.8	5/4/18
27	AP-1	Boron	2	19.1	7/9/18
28	AP-1	Iron	5	5.08	6/1/10
29	AP-1	Iron	5	35.3	2/22/12
30	AP-1	Iron	5	18.3	4/25/12
31	AP-1	Iron	5	9.22	8/23/12
32	AP-1	Iron	5	23.4	11/28/12
33	AP-1	Iron	5	13.3	2/21/13

34	AP-1	Iron	5	12.2	5/23/13
35	AP-1	Iron	5	25.8	8/28/13
36	AP-1	Iron	5	27.1	11/20/13
37	AP-1	Iron	5	27.7	2/26/14
38	AP-1	Iron	5	48.3	5/20/14
39	AP-1	Iron	5	32.5	8/26/14
40	AP-1	Iron	5	32.7	11/21/14
41	AP-1	Iron	5	25.8	2/24/15
42	AP-1	Iron	5	30.1	5/28/15
43	AP-1	Iron	5	24.4	8/20/15
44	AP-1	Iron	5	26.3	11/13/15
45	AP-1	Iron	5	27.3	2/26/16
46	AP-1	Iron	5	25.6	5/13/16
47	AP-1	Iron	5	24.6	8/4/16
48	AP-1	Iron	5	25	11/18/16
49	AP-1	Iron	5	30.5	2/16/17
50	AP-1	Iron	5	9.66	5/31/12017
51	AP-1	Iron	5	24.5	11/9/17
52	AP-1	Lead	0.0075	0.0184	2/22/12
53	AP-1	Lead	0.0075	0.0291	2/26/14
54	AP-1	Manganese	0.15	0.27	6/1/10
55	AP-1	Manganese	0.15	0.702	2/22/12
56	AP-1	Manganese	0.15	0.864	4/25/12
57	AP-1	Manganese	0.15	0.564	8/23/12
58	AP-1	Manganese	0.15	0.744	11/28/12
59	AP-1	Manganese	0.15	0.732	2/21/13
60	AP-1	Manganese	0.15	0.182	5/23/13
61	AP-1	Manganese	0.15	0.447	8/28/13
62	AP-1	Manganese	0.15	0.468	11/20/13
63	AP-1	Manganese	0.15	0.47	2/26/14
64	AP-1	Manganese	0.15	0.877	5/20/14
65	AP-1	Manganese	0.15	0.484	8/26/14
66	AP-1	Manganese	0.15	0.482	11/21/14
67	AP-1	Manganese	0.15	0.319	2/24/15
68	AP-1	Manganese	0.15	0.391	5/28/15
69	AP-1	Manganese	0.15	0.353	8/20/15
70	AP-1	Manganese	0.15	0.546	11/13/15
71	AP-1	Manganese	0.15	0.493	2/26/16

72	AP-1	Manganese	0.15	0.398	5/13/16
73	AP-1	Manganese	0.15	0.378	8/4/16
74	AP-1	Manganese	0.15	0.399	11/18/16
75	AP-1	Manganese	0.15	0.45	2/16/17
76	AP-1	Manganese	0.15	0.338	5/31/17
77	AP-1	Manganese	0.15	0.448	8/2/17
78	AP-1	Manganese	0.15	0.459	11/9/17
79	AP-1	Sulfate	400	521	2/22/12
80	AP-1	Sulfate	400	463	4/25/12
81	AP-1	Sulfate	400	469	8/23/12
82	AP-1	Sulfate	400	488	11/28/12
83	AP-1	Sulfate	400	506	2/21/13
84	AP-1	Sulfate	400	603	5/23/13
85	AP-1	Sulfate	400	597	8/28/13
86	AP-1	Sulfate	400	581	11/20/13
87	AP-1	Sulfate	400	436	2/26/14
88	AP-1	Sulfate	400	615	5/20/14
89	AP-1	Sulfate	400	594	8/26/14
90	AP-1	Sulfate	400	619	11/21/14
91	AP-1	Sulfate	400	504	2/24/15
92	AP-1	Sulfate	400	486	5/28/15
93	AP-1	Sulfate	400	550	8/20/15
94	AP-1	Sulfate	400	594	2/26/16
95	AP-1	Sulfate	400	597	5/13/16
96	AP-1	Sulfate	400	612	8/4/16
97	AP-1	Sulfate	400	589	11/18/16
98	AP-1	Sulfate	400	645	2/16/17
99	AP-1	Sulfate	400	532	5/31/17
100	AP-1	Sulfate	400	672	8/2/17
101	AP-1	Sulfate	400	664	11/9/17
102	AP-1	Sulfate	400	573	5/4/18
103	AP-1	Sulfate	400	674	7/9/18
104	AP-1	TDS	1200	1390	5/23/13
105	AP-1	TDS	1200	1380	8/28/13
106	AP-1	TDS	1200	1250	11/20/13
107	AP-1	TDS	1200	1360	5/20/14
108	AP-1	TDS	1200	1300	8/26/14
109	AP-1	TDS	1200	1490	11/21/14

110	AP-1	TDS	1200	1230	2/24/15
111	AP-1	TDS	1200	1260	5/28/15
112	AP-1	TDS	1200	1280	11/13/15
113	AP-1	TDS	1200	1430	5/13/16
114	AP-1	TDS	1200	1390	8/4/16
115	AP-1	TDS	1200	1320	11/18/16
116	AP-1	TDS	1200	1430	2/16/17
117	AP-1	TDS	1200	1450	8/2/17
118	AP-1	TDS	1200	1420	11/9/17
119	AP-1	TDS	1200	1300	5/4/19
120	AP-1	TDS	1200	1520	7/9/18
121	AP-2	Arsenic	0.01	0.0331	8/24/12
122	AP-2	Arsenic	0.01	0.0156	11/28/12
123	AP-2	Arsenic	0.01	0.0738	2/21/13
124	AP-2	Arsenic	0.01	0.034	5/23/13
125	AP-2	Arsenic	0.01	0.0224	8/28/13
126	AP-2	Boron	2	2.63	6/1/10
127	AP-2	Boron	2	5	2/22/12
128	AP-2	Boron	2	5.51	4/25/12
129	AP-2	Boron	2	6.88	8/24/12
130	AP-2	Boron	2	6.24	11/28/12
131	AP-2	Boron	2	10	2/21/13
132	AP-2	Boron	2	5.01	5/23/13
133	AP-2	Boron	2	5.46	8/28/13
134	AP-2	Boron	2	4.78	11/20/13
135	AP-2	Boron	2	4.1	2/26/14
136	AP-2	Boron	2	4.36	5/20/14
137	AP-2	Boron	2	4.84	8/26/14
138	AP-2	Boron	2	4.87	11/21/14
139	AP-2	Boron	2	4.12	2/24/15
140	AP-2	Boron	2	4.51	5/28/15
141	AP-2	Boron	2	5.01	8/20/15
142	AP-2	Boron	2	4.62	2/26/16
143	AP-2	Boron	2	4.43	5/13/16
144	AP-2	Boron	2	4.4	8/4/16
145	AP-2	Boron	2	4.28	11/18/16
146	AP-2	Boron	2	3.92	2/16/17
147	AP-2	Boron	2	3.63	5/31/17

148	AP-2	Boron	2	3.58	8/2/17
149	AP-2	Boron	2	3.16	11/9/17
150	AP-2	Boron	2	2.94	5/4/18
151	AP-2	Boron	2	3.63	7/9/18
152	AP-2	Chromium	0.1	0.277	2/22/12
153	AP-2	Chromium	0.1	0.111	8/24/12
154	AP-2	Iron	5	242	2/22/12
155	AP-2	Iron	5	59.2	4/25/12
156	AP-2	Iron	5	90.8	8/24/12
157	AP-2	Iron	5	134	11/28/12
158	AP-2	Iron	5	87.9	2/21/13
159	AP-2	Iron	5	15.8	5/23/13
160	AP-2	Iron	5	25.1	8/28/13
161	AP-2	Iron	5	33.9	11/20/13
162	AP-2	Iron	5	29.7	5/20/14
163	AP-2	Iron	5	20.1	8/26/14
164	AP-2	Iron	5	20.4	11/21/14
165	AP-2	Iron	5	20.2	2/24/15
166	AP-2	Iron	5	21.3	5/28/15
167	AP-2	Iron	5	22.8	8/20/15
168	AP-2	Iron	5	15.7	2/26/16
169	AP-2	Iron	5	6.73	5/13/16
170	AP-2	Iron	5	8.18	2/16/17
171	AP-2	Lead	0.0075	0.226	2/22/12
172	AP-2	Lead	0.0075	0.047	4/25/12
173	AP-2	Lead	0.0075	0.0599	8/24/12
174	AP-2	Lead	0.0075	0.0433	11/28/12
175	AP-2	Lead	0.0075	0.0104	8/28/13
176	AP-2	Lead	0.0075	0.015	11/20/13
177	AP-2	Manganese	0.15	2	6/1/10
178	AP-2	Manganese	0.15	21.4	2/22/12
179	AP-2	Manganese	0.15	20.7	4/25/12
180	AP-2	Manganese	0.15	22.5	8/24/12
181	AP-2	Manganese	0.15	46	11/28/12
182	AP-2	Manganese	0.15	21.6	2/21/13
183	AP-2	Manganese	0.15	20.7	5/23/13
184	AP-2	Manganese	0.15	20.4	8/28/13
185	AP-2	Manganese	0.15	20.3	11/20/13

186	AP-2	Manganese	0.15	11.5	2/26/14
187	AP-2	Manganese	0.15	16.7	5/20/14
188	AP-2	Manganese	0.15	19.8	8/26/14
189	AP-2	Manganese	0.15	16.6	11/21/14
190	AP-2	Manganese	0.15	25.1	2/24/15
191	AP-2	Manganese	0.15	25.5	5/28/15
192	AP-2	Manganese	0.15	31.1	8/20/15
193	AP-2	Manganese	0.15	16.7	2/26/16
194	AP-2	Manganese	0.15	8.42	5/13/16
195	AP-2	Manganese	0.15	7.21	8/4/16
196	AP-2	Manganese	0.15	8.17	11/18/16
197	AP-2	Manganese	0.15	7.4	2/16/17
198	AP-2	Manganese	0.15	9.16	5/31/17
199	AP-2	Manganese	0.15	10.3	8/2/17
200	AP-2	Manganese	0.15	8.5	11/9/17
201	AP-2	Sulfate	400	463	11/21/14
202	AP-2	Sulfate	400	497	2/24/15
203	AP-2	Sulfate	400	686	5/28/15
204	AP-2	Sulfate	400	711	8/20/15
205	AP-2	Sulfate	400	531	2/26/16
206	AP-2	Sulfate	400	418	5/13/16
207	AP-2	Sulfate	400	467	5/4/18
208	AP-2	Sulfate	400	656	7/9/18
209	AP-2	TDS	1200	1460	5/28/15
210	AP-2	TDS	1200	1520	8/20/15
211	AP-2	TDS	1200	1650	7/9/18
212	AP-3	Arsenic	0.01	0.0144	6/1/10
213	AP-3	Arsenic	0.01	0.0254	8/24/12
214	AP-3	Arsenic	0.01	0.0136	11/28/12
215	AP-3	Arsenic	0.01	0.0784	2/21/13
216	AP-3	Arsenic	0.01	0.016	5/23/13
217	AP-3	Boron	2	11.9	6/1/10
218	AP-3	Boron	2	17.7	2/22/12
219	AP-3	Boron	2	18.4	4/25/12
220	AP-3	Boron	2	20.9	8/24/12
221	AP-3	Boron	2	8.03	11/28/12
222	AP-3	Boron	2	29.1	2/21/13
223	AP-3	Boron	2	18.7	5/23/13

224	AP-3	Boron	2	21.3	8/28/13
225	AP-3	Boron	2	20.6	11/20/13
226	AP-3	Boron	2	19.3	2/26/14
227	AP-3	Boron	2	19.3	5/20/14
228	AP-3	Boron	2	19.2	8/26/14
229	AP-3	Boron	2	19.5	11/21/14
230	AP-3	Boron	2	17.8	2/24/15
231	AP-3	Boron	2	16.4	5/28/15
232	AP-3	Boron	2	17.6	8/20/15
233	AP-3	Boron	2	20.1	11/13/15
234	AP-3	Boron	2	16.9	2/26/16
235	AP-3	Boron	2	16.2	5/13/16
236	AP-3	Boron	2	16.5	8/4/16
237	AP-3	Boron	2	18.6	11/18/16
238	AP-3	Boron	2	17.7	5/31/17
239	AP-3	Boron	2	18.9	8/2/17
240	AP-3	Boron	2	19.2	11/9/17
241	AP-3	Boron	2	18.5	5/4/18
242	AP-3	Boron	2	18.8	7/9/18
243	AP-3	Iron	5	10.1	6/1/10
244	AP-3	Iron	5	13.6	2/22/12
245	AP-3	Iron	5	14	4/25/12
246	AP-3	Iron	5	19.2	8/24/12
247	AP-3	Iron	5	15.5	11/28/12
248	AP-3	Iron	5	165	2/21/13
249	AP-3	Iron	5	14	5/23/13
250	AP-3	Iron	5	12.2	8/28/13
251	AP-3	Iron	5	18.1	11/20/13
252	AP-3	Iron	5	23.9	2/26/14
253	AP-3	Iron	5	16.9	5/20/14
254	AP-3	Iron	5	14.4	8/26/14
255	AP-3	Iron	5	14.3	11/21/14
256	AP-3	Iron	5	18.3	2/24/15
257	AP-3	Iron	5	22.2	5/28/15
258	AP-3	Iron	5	11.5	8/20/15
259	AP-3	Iron	5	14.1	11/13/15
260	AP-3	Iron	5	15.5	2/26/16
261	AP-3	Iron	5	12.6	5/13/16

262	AP-3	Iron	5	17.8	8/4/16
263	AP-3	Iron	5	13	11/18/16
264	AP-3	Iron	5	18.1	2/16/17
265	AP-3	Iron	5	8.39	5/31/17
266	AP-3	Iron	5	10.3	8/2/17
267	AP-3	Iron	5	11.5	11/9/17
268	AP-3	Lead	0.0075	0.0084	2/22/12
269	AP-3	Lead	0.0075	0.0118	8/24/12
270	AP-3	Manganese	0.15	9.25	6/1/10
271	AP-3	Manganese	0.15	10.6	2/22/12
272	AP-3	Manganese	0.15	7.24	4/25/12
273	AP-3	Manganese	0.15	8.15	8/24/12
274	AP-3	Manganese	0.15	8.64	11/28/12
275	AP-3	Manganese	0.15	6.18	2/21/13
276	AP-3	Manganese	0.15	8.9	5/23/13
277	AP-3	Manganese	0.15	7.61	8/28/13
278	AP-3	Manganese	0.15	8.99	11/20/13
279	AP-3	Manganese	0.15	5.58	2/26/14
280	AP-3	Manganese	0.15	7.73	5/20/14
281	AP-3	Manganese	0.15	8.94	8/26/14
282	AP-3	Manganese	0.15	8.24	11/21/14
283	AP-3	Manganese	0.15	8.34	2/24/15
284	AP-3	Manganese	0.15	9.11	5/28/15
285	AP-3	Manganese	0.15	8.29	8/20/15
286	AP-3	Manganese	0.15	9.64	11/13/15
287	AP-3	Manganese	0.15	9.97	2/26/16
288	AP-3	Manganese	0.15	7.91	5/13/16
289	AP-3	Manganese	0.15	7.8	8/4/16
290	AP-3	Manganese	0.15	7.83	11/18/16
291	AP-3	Manganese	0.15	8.14	2/16/17
292	AP-3	Manganese	0.15	6.92	5/31/17
293	AP-3	Manganese	0.15	7.86	8/2/17
294	AP-3	Manganese	0.15	7.52	11/9/17
295	AP-3	Sulfate	400	401	7/9/18
296	AW-3	Arsenic	0.01	0.0653	6/1/10
297	AW-3	Arsenic	0.01	0.0262	2/22/12
298	AW-3	Arsenic	0.01	0.129	4/25/12
299	AW-3	Arsenic	0.01	0.131	8/23/12

300	AW-3	Arsenic	0.01	0.121	11/28/12
301	AW-3	Arsenic	0.01	0.104	2/21/13
302	AW-3	Arsenic	0.01	0.015	5/23/13
303	AW-3	Arsenic	0.01	0.134	11/20/13
304	AW-3	Arsenic	0.01	0.139	2/26/14
305	AW-3	Arsenic	0.01	0.138	5/20/14
306	AW-3	Arsenic	0.01	0.134	8/26/14
307	AW-3	Arsenic	0.01	0.118	11/21/14
308	AW-3	Arsenic	0.01	0.105	2/24/15
309	AW-3	Arsenic	0.01	0.114	5/28/15
310	AW-3	Arsenic	0.01	0.121	8/20/15
311	AW-3	Arsenic	0.01	0.151	11/13/15
312	AW-3	Arsenic	0.01	0.0982	2/26/16
313	AW-3	Arsenic	0.01	0.169	5/13/16
314	AW-3	Arsenic	0.01	0.231	8/4/16
315	AW-3	Arsenic	0.01	0.224	11/18/16
316	AW-3	Arsenic	0.01	0.21	2/16/17
317	AW-3	Arsenic	0.01	0.0856	5/31/17
318	AW-3	Arsenic	0.01	0.157	8/2/17
319	AW-3	Arsenic	0.01	0.172	11/9/17
320	AW-3	Iron	5	12	6/1/10
321	AW-3	Iron	5	62.5	4/25/12
322	AW-3	Iron	5	11.5	8/23/12
323	AW-3	Iron	5	12.3	11/28/12
324	AW-3	Iron	5	13	2/21/13
325	AW-3	Iron	5	14.3	11/20/13
326	AW-3	Iron	5	11	2/26/14
327	AW-3	Iron	5	23	5/20/14
328	AW-3	Iron	5	11	8/26/14
329	AW-3	Iron	5	11	11/21/14
330	AW-3	Iron	5	9.1	2/24/15
331	AW-3	Iron	5	9.53	5/28/15
332	AW-3	Iron	5	11	8/20/15
333	AW-3	Iron	5	11.5	11/13/15
334	AW-3	Iron	5	25.7	5/13/16
335	AW-3	Iron	5	12.1	8/4/16
336	AW-3	Iron	5	11.5	11/18/16
337	AW-3	Iron	5	35.7	2/16/17

338	AW-3	Iron	5	16.6	8/2/17
339	AW-3	Iron	5	14.1	11/9/17
340	AW-3	Manganese	0.15	0.348	6/1/10
341	AW-3	Manganese	0.15	2.02	4/25/12
342	AW-3	Manganese	0.15	0.329	8/23/12
343	AW-3	Manganese	0.15	0.334	11/28/12
344	AW-3	Manganese	0.15	0.306	2/21/13
345	AW-3	Manganese	0.15	0.434	11/20/13
346	AW-3	Manganese	0.15	0.323	2/26/14
347	AW-3	Manganese	0.15	0.744	5/20/14
348	AW-3	Manganese	0.15	0.256	8/26/14
359	AW-3	Manganese	0.15	0.255	11/21/14
350	AW-3	Manganese	0.15	0.217	2/24/15
351	AW-3	Manganese	0.15	0.263	5/28/15
352	AW-3	Manganese	0.15	0.255	8/20/15
353	AW-3	Manganese	0.15	0.302	11/13/15
354	AW-3	Manganese	0.15	0.223	2/26/16
355	AW-3	Manganese	0.15	0.84	5/13/16
356	AW-3	Manganese	0.15	0.304	8/4/16
357	AW-3	Manganese	0.15	0.296	11/18/16
358	AW-3	Manganese	0.15	0.843	2/16/17
359	AW-3	Manganese	0.15	0.29	5/31/17
360	AW-3	Manganese	0.15	0.547	8/2/17
361	AW-3	Manganese	0.15	0.42	11/9/17
362	RW-3	Arsenic	0.01	0.0826	5/4/18
363	RW-3	Arsenic	0.01	0.0935	6/21/18
364	RW-3	Arsenic	0.01	0.136	7/9/18
365	RW-3	Arsenic	0.01	0.12	10/26/18

Attachment I

Exhibit E: Violations of Illinois Class II groundwater standards at CWLP's Dallman Generating Station. This table does not include pH violations.

Exceedance	Well	Pollutant	Class II GQS (mg/L)	Sample Value (mg/L)	Collection Date
1	AP-1	Boron	2	14.6	2/22/12
2	AP-1	Boron	2	10.4	4/25/12
3	AP-1	Boron	2	15.2	8/23/12
4	AP-1	Boron	2	4.3	11/28/12
5	AP-1	Boron	2	3.9	2/21/13
6	AP-1	Boron	2	7.76	5/23/13
7	AP-1	Boron	2	14.7	8/28/13
8	AP-1	Boron	2	18.9	11/20/13
9	AP-1	Boron	2	17.2	5/20/14
10	AP-1	Boron	2	18	8/26/14
11	AP-1	Boron	2	17.9	11/21/14
12	AP-1	Boron	2	17.9	2/24/15
13	AP-1	Boron	2	15.7	5/28/15
14	AP-1	Boron	2	17.5	8/20/15
15	AP-1	Boron	2	18.8	11/13/15
16	AP-1	Boron	2	16.1	2/26/16
17	AP-1	Boron	2	17.2	5/13/16
18	AP-1	Boron	2	17.9	8/4/16
19	AP-1	Boron	2	17.3	11/18/16
20	AP-1	Boron	2	22.5	2/16/17
21	AP-1	Boron	2	13.9	5/31/17
22	AP-1	Boron	2	19.4	8/2/17
23	AP-1	Boron	2	20.3	11/9/17
24	AP-1	Boron	2	15.8	5/4/18
25	AP-1	Boron	2	19.1	7/9/18
26	AP-1	Iron	5	5.08	6/1/10
27	AP-1	Iron	5	35.3	2/22/12
28	AP-1	Iron	5	18.3	4/25/12
29	AP-1	Iron	5	9.22	8/23/12
30	AP-1	Iron	5	23.4	11/28/12
31	AP-1	Iron	5	13.3	2/21/13
32	AP-1	Iron	5	12.2	5/23/13
33	AP-1	Iron	5	25.8	8/28/13

34	AP-1	Iron	5	27.1	11/20/13
35	AP-1	Iron	5	27.7	2/26/14
36	AP-1	Iron	5	48.3	5/20/14
37	AP-1	Iron	5	32.5	8/26/14
38	AP-1	Iron	5	32.7	11/21/14
39	AP-1	Iron	5	25.8	2/24/15
40	AP-1	Iron	5	30.1	5/28/15
41	AP-1	Iron	5	24.4	8/20/15
42	AP-1	Iron	5	26.3	11/13/15
43	AP-1	Iron	5	27.3	2/26/16
44	AP-1	Iron	5	25.6	5/13/16
45	AP-1	Iron	5	24.6	8/4/16
46	AP-1	Iron	5	25	11/18/16
47	AP-1	Iron	5	30.5	2/16/17
48	AP-1	Iron	5	9.66	5/31/17
49	AP-1	Iron	5	24.5	11/9/17
50	AP-1	Sulfate	400	521	2/22/12
51	AP-1	Sulfate	400	463	4/25/12
52	AP-1	Sulfate	400	469	8/23/12
53	AP-1	Sulfate	400	488	11/28/12
54	AP-1	Sulfate	400	506	2/21/13
55	AP-1	Sulfate	400	603	5/23/13
56	AP-1	Sulfate	400	597	8/28/13
57	AP-1	Sulfate	400	581	11/20/13
58	AP-1	Sulfate	400	436	2/26/14
59	AP-1	Sulfate	400	615	5/20/14
60	AP-1	Sulfate	400	594	8/26/14
61	AP-1	Sulfate	400	619	11/21/14
62	AP-1	Sulfate	400	504	2/24/15
63	AP-1	Sulfate	400	486	5/28/15
64	AP-1	Sulfate	400	550	8/20/15
65	AP-1	Sulfate	400	594	2/26/16
66	AP-1	Sulfate	400	597	5/13/16
67	AP-1	Sulfate	400	612	8/4/16
68	AP-1	Sulfate	400	589	11/18/16
69	AP-1	Sulfate	400	645	2/16/17
70	AP-1	Sulfate	400	532	5/31/17
71	AP-1	Sulfate	400	672	8/2/17

72	AP-1	Sulfate	400	664	11/9/17
73	AP-1	Sulfate	400	573	5/4/18
74	AP-1	Sulfate	400	674	7/9/18
75	AP-1	TDS	1200	1390	5/23/13
76	AP-1	TDS	1200	1380	8/28/13
77	AP-1	TDS	1200	1250	11/20/13
78	AP-1	TDS	1200	1360	5/20/14
79	AP-1	TDS	1200	1300	8/26/14
80	AP-1	TDS	1200	1490	11/21/14
81	AP-1	TDS	1200	1230	2/24/15
82	AP-1	TDS	1200	1260	5/28/15
83	AP-1	TDS	1200	1280	11/13/15
84	AP-1	TDS	1200	1430	5/13/16
85	AP-1	TDS	1200	1390	8/4/16
86	AP-1	TDS	1200	1320	11/18/16
87	AP-1	TDS	1200	1430	2/16/17
88	AP-1	TDS	1200	1420	11/9/17
89	AP-1	TDS	1200	1300	5/4/18
90	AP-1	TDS	1200	1530	7/9/18
91	AP-2	Boron	2	2.63	6/1/10
92	AP-2	Boron	2	5	2/22/12
93	AP-2	Boron	2	5.51	4/25/12
94	AP-2	Boron	2	6.88	8/24/12
95	AP-2	Boron	2	6.24	11/28/12
96	AP-2	Boron	2	10	2/21/13
97	AP-2	Boron	2	5.01	5/23/13
98	AP-2	Boron	2	5.46	8/28/13
99	AP-2	Boron	2	4.78	11/20/13
100	AP-2	Boron	2	4.1	2/26/14
101	AP-2	Boron	2	4.36	5/20/14
102	AP-2	Boron	2	4.84	8/26/14
103	AP-2	Boron	2	4.87	11/21/14
104	AP-2	Boron	2	4.12	2/24/15
105	AP-2	Boron	2	4.51	5/28/15
106	AP-2	Boron	2	5.01	8/20/15
107	AP-2	Boron	2	4.62	2/26/16
108	AP-2	Boron	2	4.43	5/13/16
109	AP-2	Boron	2	4.4	8/4/16

110	AP-2	Boron	2	4.28	11/18/16
111	AP-2	Boron	2	3.92	2/16/17
112	AP-2	Boron	2	3.63	5/31/17
113	AP-2	Boron	2	3.58	8/2/17
114	AP-2	Boron	2	3.16	11/9/17
115	AP-2	Boron	2	2.94	5/4/18
116	AP-2	Boron	2	3.63	7/9/18
117	AP-2	Iron	5	242	2/22/12
118	AP-2	Iron	5	59.2	4/25/12
119	AP-2	Iron	5	90.8	8/24/12
120	AP-2	Iron	5	134	11/28/12
121	AP-2	Iron	5	87.9	2/21/13
122	AP-2	Iron	5	15.8	5/23/13
123	AP-2	Iron	5	25.1	8/28/13
124	AP-2	Iron	5	33.9	11/20/13
125	AP-2	Iron	5	29.7	5/20/14
126	AP-2	Iron	5	20.1	8/26/14
127	AP-2	Iron	5	20.4	11/21/14
128	AP-2	Iron	5	20.2	2/24/15
129	AP-2	Iron	5	21.3	5/28/15
130	AP-2	Iron	5	22.8	8/20/15
131	AP-2	Iron	5	15.7	2/26/16
132	AP-2	Iron	5	6.73	5/13/16
133	AP-2	Iron	5	8.18	2/16/17
134	AP-2	Lead	0.1	0.226	2/22/12
135	AP-2	Manganese	10	21.4	2/22/12
136	AP-2	Manganese	10	20.7	4/25/12
137	AP-2	Manganese	10	22.5	8/24/12
138	AP-2	Manganese	10	46	11/28/12
139	AP-2	Manganese	10	21.6	2/21/13
140	AP-2	Manganese	10	20.7	5/23/13
141	AP-2	Manganese	10	20.4	8/28/13
142	AP-2	Manganese	10	20.3	11/20/13
143	AP-2	Manganese	10	11.5	2/26/14
144	AP-2	Manganese	10	16.7	5/20/14
145	AP-2	Manganese	10	19.8	8/26/14
146	AP-2	Manganese	10	16.6	11/21/14
147	AP-2	Manganese	10	25.1	2/24/15

148	AP-2	Manganese	10	25.5	5/28/15
149	AP-2	Manganese	10	31.1	8/20/15
150	AP-2	Manganese	10	16.7	2/26/16
151	AP-2	Manganese	10	10.3	8/2/17
152	AP-2	Sulfate	400	463	11/21/14
153	AP-2	Sulfate	400	497	2/24/15
154	AP-2	Sulfate	400	686	5/28/15
155	AP-2	Sulfate	400	711	8/20/15
156	AP-2	Sulfate	400	531	2/26/16
157	AP-2	Sulfate	400	418	5/13/16
158	AP-2	Sulfate	400	467	5/4/18
159	AP-2	Sulfate	400	656	7/9/18
160	AP-2	TDS	1200	1460	5/28/15
161	AP-2	TDS	1200	1520	8/20/15
162	AP-2	TDS	1200	1650	7/9/18
163	AP-3	Boron	2	11.9	6/1/10
164	AP-3	Boron	2	17.7	2/22/12
165	AP-3	Boron	2	18.4	4/25/12
166	AP-3	Boron	2	20.9	8/24/12
167	AP-3	Boron	2	8.03	11/28/12
168	AP-3	Boron	2	29.1	2/21/13
169	AP-3	Boron	2	18.7	5/23/13
170	AP-3	Boron	2	21.3	8/28/13
171	AP-3	Boron	2	20.6	11/20/13
172	AP-3	Boron	2	19.3	2/26/14
173	AP-3	Boron	2	19.3	5/20/14
174	AP-3	Boron	2	19.2	8/26/14
175	AP-3	Boron	2	19.5	11/21/14
176	AP-3	Boron	2	17.8	2/24/15
177	AP-3	Boron	2	16.4	5/28/15
178	AP-3	Boron	2	17.6	8/20/15
179	AP-3	Boron	2	20.1	11/13/15
180	AP-3	Boron	2	16.9	2/26/16
181	AP-3	Boron	2	16.2	5/13/16
182	AP-3	Boron	2	16.5	8/4/16
183	AP-3	Boron	2	18.6	11/18/16
184	AP-3	Boron	2	17.7	5/31/17
185	AP-3	Boron	2	18.9	8/2/17

186	AP-3	Boron	2	19.2	11/9/17
187	AP-3	Boron	2	18.5	5/4/18
188	AP-3	Boron	2	18.8	7/9/18
189	AP-3	Iron	5	10.1	6/1/10
190	AP-3	Iron	5	13.6	2/22/12
191	AP-3	Iron	5	14	4/25/12
192	AP-3	Iron	5	19.2	8/24/12
193	AP-3	Iron	5	15.5	11/28/12
194	AP-3	Iron	5	165	2/21/13
195	AP-3	Iron	5	14	5/23/13
196	AP-3	Iron	5	12.2	8/28/13
197	AP-3	Iron	5	18.1	11/20/13
198	AP-3	Iron	5	23.9	2/26/14
199	AP-3	Iron	5	16.9	5/20/14
200	AP-3	Iron	5	14.4	8/26/14
201	AP-3	Iron	5	14.3	11/21/14
202	AP-3	Iron	5	18.3	2/24/15
203	AP-3	Iron	5	22.2	5/28/15
204	AP-3	Iron	5	11.5	8/20/15
205	AP-3	Iron	5	14.1	11/13/15
206	AP-3	Iron	5	15.5	2/26/16
207	AP-3	Iron	5	12.6	5/13/16
208	AP-3	Iron	5	17.8	8/4/16
209	AP-3	Iron	5	13	11/18/16
210	AP-3	Iron	5	18.1	2/16/17
211	AP-3	Iron	5	8.39	5/31/17
212	AP-3	Iron	5	10.3	8/2/17
213	AP-3	Iron	5	11.5	11/9/17
214	AP-3	Manganese	10	10.6	2/22/12
215	AP-3	Sulfate	400	401	7/9/18
216	AW-3	Arsenic	0.2	0.231	8/4/16
217	AW-3	Arsenic	0.2	0.224	11/18/16
218	AW-3	Arsenic	0.2	0.21	2/16/17
219	AW-3	Iron	5	12	6/1/10
220	AW-3	Iron	5	62.5	4/25/12
221	AW-3	Iron	5	11.5	8/23/12
222	AW-3	Iron	5	12.3	11/28/12
223	AW-3	Iron	5	13	2/21/13

224	AW-3	Iron	5	14.3	11/20/13
225	AW-3	Iron	5	11	2/26/14
226	AW-3	Iron	5	23	5/20/14
227	AW-3	Iron	5	11	8/26/14
228	AW-3	Iron	5	11	11/21/14
229	AW-3	Iron	5	9.1	2/24/15
230	AW-3	Iron	5	9.53	5/28/15
231	AW-3	Iron	5	11	8/20/15
232	AW-3	Iron	5	11.5	11/13/15
233	AW-3	Iron	5	25.7	5/13/16
234	AW-3	Iron	5	12.1	8/4/16
235	AW-3	Iron	5	11.5	11/18/16
236	AW-3	Iron	5	35.7	2/16/17
237	AW-3	Iron	5	16.6	8/2/17

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Notice of Electronic Filing, Unopposed Motion for Leave to File, and Complainants' First Amended Complaint were served to all parties of record listed below by electronic mail on April 18th, 2019.

Attachment J

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Lab Order:	10050637	**Report Date:**	6/29/2010
Project:	CWLP FGDS 2nd Quarter Groundwater	**Collection Date:**	6/1/2010 8:00:00 AM
Lab ID:	10050637-07	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Ammonia as N		**Method:**	**SM4500-NH3-B-C**				
Nitrogen, Ammonia (As N)	3.92	0.8		mg/L	6/3/10	58839	TTT
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	24.4	2.		mg/L	6/2/10	R141509	MF
Nitrogen, Nitrate (As N)	< 0.5	0.5		mg/L	6/2/10	R141509	MF
Sulfate	< 5.	5.		mg/L	6/2/10	R141509	MF
BOD, 5 Day, 20°C		**Method:**	**SM5210 B**				
Biochemical Oxygen Demand	< 2.	2.	H	mg/L	6/7/10	R141957	IR
Chemical Oxygen Demand		**Method:**	**HACH 8000**				
Chemical Oxygen Demand	26.8	10.		mg/L	6/7/10	R141680	VT
Cyanide, Dissolved		**Method:**					
Cyanide	< 0.01	0.01		mg/L	6/3/10	58820	CS2
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.01	0.01		mg/L	6/3/10	58820	CS2
Dissolved Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	25.4	2.		mg/L	6/2/10	R141577	MF
Nitrogen, Nitrate (As N)	< 0.2	0.2		mg/L	6/2/10	R141577	MF
Sulfate	< 5.	5.		mg/L	6/2/10	R141577	MF
Fluoride		**Method:**	**SM4500-F C**				
Fluoride	0.59	0.5		mg/L	6/8/10	R141750	MF
Hexane Extractable Materials, (FOG)		**Method:**	**E1664A**				
Oil and Grease (HEM)	< 5.	5.		mg/L	6/3/10	R141649	TB2
Organic Carbon, Total		**Method:**	**SM5310-C B**				
Organic Carbon, Total	10.3	1.		mg/L	6/2/10	R141522	VT
Phenolics, Total		**Method:**	**SW9065 BY AQUACHEM**				
Phenolics, Total Recoverable	< 0.005	0.005		mg/L	6/3/10	58818	CS2
Soluble Ammonia as N		**Method:**	**4500-NH3-B-C**				

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 10050637
Project: CWLP FGDS 2nd Quarter Groundwater
Lab ID: 10050637-07

Client Sample ID: AW-3
Report Date: 6/29/2010
Collection Date: 6/1/2010 8:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Nitrogen, Ammonia (As N)	3.3	0.16	mg/L	6/3/10	58839	TTT
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	432.	20.	mg/L	6/2/10	R141593	IR
ICP Metals, Groundwater Dissolved		**Method:**	**SW6010B / SW3005A**			
Magnesium	31.7	0.111	mg/L	6/9/10	58810	CS2
ICP Metals, Groundwater Total		**Method:**	**SW6010B / SW3015**			
Magnesium	31.4	0.125	mg/L	6/9/10	58815	CS2
Mercury in Groundwater, Dissolved		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/4/10	58866	IG
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/4/10	58863	IG
Metals, Dissolved		**Method:**	**SW6020A / SW3005A**			
Arsenic	0.0653	0.00889	mg/L	6/7/10 19:09	58810	AG
Boron	< 0.278	0.278	mg/L	6/9/10	58810	AG
Cadmium	< 0.00444	0.00444	mg/L	6/7/10 19:09	58810	AG
Chromium	0.0182	0.00889	mg/L	6/7/10 19:09	58810	AG
Iron	4.23	0.0889	mg/L	6/7/10 19:09	58810	AG
Lead	< 0.00667	0.00667	mg/L	6/7/10 19:09	58810	AG
Zinc	< 0.02	0.02	mg/L	6/7/10 19:09	58810	AG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Aluminum	0.343	0.05	mg/L	6/7/10 20:26	58815	AG
Antimony	< 0.006	0.006	mg/L	6/7/10 20:26	58815	AG
Arsenic	0.0879	0.01	mg/L	6/7/10 20:26	58815	AG
Barium	0.186	0.02	mg/L	6/7/10 20:26	58815	AG
Beryllium	< 0.003	0.003	mg/L	6/7/10 20:26	58815	AG
Boron	< 0.2	0.2	mg/L	6/9/10	58815	AG
Cadmium	< 0.001	0.001	mg/L	6/7/10 20:26	58815	AG
Calcium	92.1	2.5	mg/L	6/7/10 17:56	58815	AG
Chromium	< 0.07	0.07	mg/L	6/7/10 20:26	58815	AG

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AW-3
Lab Order: 10050637
Report Date: 6/29/2010
Project: CWLP FGDS 2nd Quarter Groundwater
Collection Date: 6/1/2010 8:00:00 AM
Lab ID: 10050637-07
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Cobalt	< 0.07	0.07		mg/L	6/7/10 20:26	58815	AG
Copper	< 0.06	0.06		mg/L	6/7/10 20:26	58815	AG
Iron	12.	0.4		mg/L	6/7/10 17:56	58815	AG
Iron	10.9	0.04		mg/L	6/7/10 20:26	58815	AG
Lead	< 0.005	0.005		mg/L	6/7/10 20:26	58815	AG
Manganese	0.348	0.01		mg/L	6/7/10 20:26	58815	AG
Nickel	< 0.05	0.05		mg/L	6/7/10 20:26	58815	AG
Potassium	1.35	0.625		mg/L	6/7/10 20:26	58815	AG
Selenium	< 0.02	0.02		mg/L	6/7/10 20:26	58815	AG
Silver	< 0.05	0.05		mg/L	6/7/10 20:26	58815	AG
Sodium	62.1	4.5		mg/L	6/7/10 17:56	58815	AG
Thallium	< 0.002	0.002		mg/L	6/7/10 20:26	58815	AG
Vanadium	< 0.0125	0.0125		mg/L	6/7/10 20:26	58815	AG
Zinc	0.0924	0.02		mg/L	6/7/10 20:26	58815	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	6/8/10	R141744	LBI
Carbofuran	< 2.	2.	C	µg/L	6/8/10	R141744	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.004	0.004	C	µg/L	6/8/10 19:04	58941	LP
1,2-Dibromoethane	< 0.004	0.004	C	µg/L	6/8/10 19:04	58941	LP
Endothal		**Method:**	**E548.1**				
Endothal	< 5.	5.		µg/L	6/16/10	R142139	OUT
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 1.25	1.25	C	µg/L	6/8/10 00:56	58894	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
4,4'-DDT	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Alachlor	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Aldrin	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Atrazine	< 0.17	0.17		µg/L	6/8/10 17:37	58900	LP
Chlordane	< 0.13	0.13		µg/L	6/8/10 17:37	58900	LP
Dieldrin	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 10050637
Project: CWLP FGDS 2nd Quarter Groundwater
Lab ID: 10050637-07

Client Sample ID: AW-3
Report Date: 6/29/2010
Collection Date: 6/1/2010 8:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Endrin	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
gamma-BHC	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Heptachlor	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Methoxychlor	< 0.01	0.01		µg/L	6/8/10 17:37	58900	LP
Simazine	< 0.17	0.17		µg/L	6/8/10 17:37	58900	LP
Toxaphene	< 0.7	0.7		µg/L	6/8/10 17:37	58900	LP
Polychlorinated biphenyls (PCBs)		**Method:**		**SW8082 / SW3510C**			
Aroclor 1016	< 0.12	0.12		µg/L	6/7/10	58902	IP
Aroclor 1221	< 0.12	0.12		µg/L	6/7/10	58902	IP
Aroclor 1232	< 0.12	0.12		µg/L	6/7/10	58902	IP
Aroclor 1242	< 0.12	0.12		µg/L	6/7/10	58902	IP
Aroclor 1248	< 0.12	0.12		µg/L	6/7/10	58902	IP
Aroclor 1254	< 0.12	0.12		µg/L	6/7/10	58902	IP
Aroclor 1260	< 0.12	0.12		µg/L	6/7/10	58902	IP
PCB, Total	< 0.82	0.82		µg/L	6/7/10	58902	IP
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 3.32	3.32		µg/L	6/7/10 18:17	58871	MG3
Bis(2-ethylhexyl)phthalate	< 6.63	6.63		µg/L	6/7/10 18:17	58871	MG3
Bis(chloromethyl)ether	< 13.9	13.9	C	µg/L	6/7/10 18:17	58871	MG3
Butyl benzyl phthalate	< 1.33	1.33		µg/L	6/7/10 18:17	58871	MG3
Di-n-butyl phthalate	< 3.32	3.32		µg/L	6/7/10 18:17	58871	MG3
Diethyl phthalate	< 0.13	0.13		µg/L	6/7/10 18:17	58871	MG3
Dimethyl phthalate	< 0.13	0.13		µg/L	6/7/10 18:17	58871	MG3
Isophorone	< 0.13	0.13		µg/L	6/7/10 18:17	58871	MG3
m,p-Cresol	< 1.6	1.6		µg/L	6/7/10 18:17	58871	MG3
Naphthalene	< 0.13	0.13		µg/L	6/7/10 18:17	58871	MG3
Parathion	< 3.32	3.32	C	µg/L	6/7/10 18:17	58871	MG3
Phenol	< 1.12	1.12		µg/L	6/7/10 18:17	58871	MG3
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.19	0.19		µg/L	6/9/10	58934	LBI
2,4-D	< 0.31	0.31		µg/L	6/9/10	58934	LBI

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AW-3
Lab Order: 10050637
Report Date: 6/29/2010
Project: CWLP FGDS 2nd Quarter Groundwater
Collection Date: 6/1/2010 8:00:00 AM
Lab ID: 10050637-07
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Dinoseb	< 0.31	0.31		µg/L	6/9/10	58934	LBI
Pentachlorophenol	< 0.26	0.26	C	µg/L	6/9/10	58934	LBI
Picloram	< 0.12	0.12	C	µg/L	6/9/10	58934	LBI
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1,2-Tetrachloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,1,1-Trichloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,1,2,2-Tetrachloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,1,2-Trichloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,1-Dichloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,1-Dichloroethene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2,3-Trichlorobenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2,3-Trichloropropane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2,4-Trimethylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2-Dibromoethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2-Dichlorobenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2-Dichloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,2-Dichloropropane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,3,5-Trimethylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,3-Dichlorobenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,3-Dichloropropane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
1,4-Dichlorobenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
2,2-Dichloropropane	< 0.4	0.4	C	µg/L	6/5/10 23:23	58924	XN
2-Butanone	< 4.	4.		µg/L	6/5/10 23:23	58924	XN
2-Chlorotoluene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
2-Hexanone	< 4.	4.		µg/L	6/5/10 23:23	58924	XN
4-Chlorotoluene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
4-Methyl-2-pentanone	< 4.	4.		µg/L	6/5/10 23:23	58924	XN
Acetone	< 8.	8.		µg/L	6/5/10 23:23	58924	XN
Acrolein	< 4.	4.		µg/L	6/5/10 23:23	58924	XN
Acrylonitrile	< 4.	4.		µg/L	6/5/10 23:23	58924	XN
Benzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Bromobenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Bromochloromethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Bromodichloromethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AW-3
Lab Order: 10050637
Report Date: 6/29/2010
Project: CWLP FGDS 2nd Quarter Groundwater
Collection Date: 6/1/2010 8:00:00 AM
Lab ID: 10050637-07
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Bromoform	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Bromomethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Carbon disulfide	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Carbon tetrachloride	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Chlorobenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Chloroethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Chloroform	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Chloromethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
cis-1,2-Dichloroethene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
cis-1,3-Dichloropropene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Dibromochloromethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Dibromomethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Dichlorodifluoromethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Ethylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Hexachlorobutadiene	< 0.4	0.4	C	µg/L	6/5/10 23:23	58924	XN
Iodomethane	< 0.4	0.4	C	µg/L	6/5/10 23:23	58924	XN
Isopropyl Toluene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Isopropylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
m,p-Xylene	< 0.8	0.8		µg/L	6/5/10 23:23	58924	XN
Methylene chloride	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
n-Butylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
n-Propylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
o-Xylene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
sec-Butylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Styrene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
tert-Butylbenzene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Tetrachloroethene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Tetrahydrofuran	< 4.	4.	C	µg/L	6/5/10 23:23	58924	XN
Toluene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
trans-1,2-Dichloroethene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
trans-1,3-Dichloropropene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
trans-1,4-Dichloro-2-butene	< 2.	2.	C	µg/L	6/12/10 17:51	59033	XN
Trichloroethene	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Trichlorofluoromethane	< 0.4	0.4		µg/L	6/5/10 23:23	58924	XN
Vinyl acetate	< 2.	2.		µg/L	6/12/10 17:51	59033	XN

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Lab Order:	10050637	**Report Date:**	6/29/2010
Project:	CWLP FGDS 2nd Quarter Groundwater	**Collection Date:**	6/1/2010 8:00:00 AM
Lab ID:	10050637-07	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Vinyl chloride	< 2.	2.	µg/L	6/12/10 17:51	59033	XN
1,3-Dichloropropene, Total	< 0.8	0.8	µg/L	6/5/10 23:23	58924	XN
Xylenes, Total	< 1.2	1.2	µg/L	6/5/10 23:23	58924	XN

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Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

June 30, 2010

RE CWLP Ash Pond Table 1

Lab Orders:
10050636

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Mitchell Ostrowski
Laboratory Director

This Report Contains 12 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

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CLIENT: City, Water, Light & Power
Project: CWLP Ash Pond Table I
Lab Order: 10050636

Date: *6/30/2010*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 10050636
Project: CWLP Ash Pond Table 1
Lab ID: 10050636-03

Client Sample ID: AW3
Report Date: 6/30/2010
Collection Date: 6/1/2010 8:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	25.5	2.	mg/L	6/2/10	R141509	MF
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	6/2/10	R141509	MF
Sulfate	< 5.	5.	mg/L	6/2/10	R141509	MF
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	6/7/10	58890	CS2
Fluoride		**Method:**	**SM4500-F C**			
Fluoride	0.52	0.5	mg/L	6/8/10	R141750	MF
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	< 20.	20.	mg/L	6/2/10	R141593	IR
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/7/10	58908	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	6/7/10 20:36	58815	AG
Arsenic	0.0936	0.01	mg/L	6/7/10 20:36	58815	AG
Barium	0.189	0.02	mg/L	6/7/10 20:36	58815	AG
Beryllium	< 0.003	0.003	mg/L	6/7/10 20:36	58815	AG
Boron	0.251	0.2	mg/L	6/9/10	58815	AG
Cadmium	< 0.001	0.001	mg/L	6/7/10 20:36	58815	AG
Chromium	< 0.07	0.07	mg/L	6/7/10 20:36	58815	AG
Cobalt	< 0.07	0.07	mg/L	6/7/10 20:36	58815	AG
Iron	11.2	0.04	mg/L	6/7/10 20:36	58815	AG
Lead	< 0.005	0.005	mg/L	6/7/10 20:36	58815	AG
Manganese	0.349	0.01	mg/L	6/7/10 20:36	58815	AG
Nickel	< 0.05	0.05	mg/L	6/7/10 20:36	58815	AG
Selenium	< 0.02	0.02	mg/L	6/7/10 20:36	58815	AG
Silver	< 0.05	0.05	mg/L	6/7/10 20:36	58815	AG
Thallium	< 0.002	0.002	mg/L	6/7/10 20:36	58815	AG
Zinc	< 0.02	0.02	mg/L	6/7/10 20:36	58815	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AP1
Lab Order: 10050636
Report Date: 6/30/2010
Project: CWLP Ash Pond Table 1
Collection Date: 6/1/2010 8:15:00 AM
Lab ID: 10050636-04
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	22.7	2.	mg/L	6/2/10	R141509	MF
Nitrogen, Nitrate (As N)	2.72	0.5	mg/L	6/2/10	R141509	MF
Sulfate	47.	5.	mg/L	6/2/10	R141509	MF
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	6/2/10	58804	CS2
Fluoride		**Method:**	**SM4500-F C**			
Fluoride	< 0.5	0.5	mg/L	6/8/10	R141751	MF
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	240.	20.	mg/L	6/2/10	R141593	IR
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/4/10	58863	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	6/7/10 21:17	58815	AG
Arsenic	< 0.01	0.01	mg/L	6/7/10 21:17	58815	AG
Barium	0.112	0.02	mg/L	6/7/10 21:17	58815	AG
Beryllium	< 0.003	0.003	mg/L	6/7/10 21:17	58815	AG
Boron	0.301	0.2	mg/L	6/9/10	58815	AG
Cadmium	< 0.001	0.001	mg/L	6/7/10 21:17	58815	AG
Chromium	< 0.07	0.07	mg/L	6/7/10 21:17	58815	AG
Cobalt	< 0.07	0.07	mg/L	6/7/10 21:17	58815	AG
Iron	5.68	0.04	mg/L	6/7/10 21:17	58815	AG
Lead	< 0.005	0.005	mg/L	6/7/10 21:17	58815	AG
Manganese	0.27	0.01	mg/L	6/7/10 21:17	58815	AG
Nickel	< 0.05	0.05	mg/L	6/7/10 21:17	58815	AG
Selenium	< 0.02	0.02	mg/L	6/7/10 21:17	58815	AG
Silver	< 0.05	0.05	mg/L	6/7/10 21:17	58815	AG
Thallium	< 0.002	0.002	mg/L	6/7/10 21:17	58815	AG
Zinc	< 0.02	0.02	mg/L	6/7/10 21:17	58815	AG

Qualifiers:
B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP2
Lab Order:	10050636	**Report Date:**	6/30/2010
Project:	CWLP Ash Pond Table 1	**Collection Date:**	6/1/2010 8:25:00 AM
Lab ID:	10050636-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	31.7	2.	mg/L	6/2/10	R141509	MF
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	6/2/10	R141509	MF
Sulfate	132.	5.	mg/L	6/2/10	R141509	MF
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	6/2/10	58804	CS2
Fluoride		**Method:**	**SM4500-F C**			
Fluoride	< 0.5	0.5	mg/L	6/8/10	R141751	MF
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	620.	20.	mg/L	6/2/10	R141593	IR
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/4/10	58863	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	6/7/10 21:22	58815	AG
Arsenic	< 0.01	0.01	mg/L	6/7/10 21:22	58815	AG
Barium	0.109	0.02	mg/L	6/7/10 21:22	58815	AG
Beryllium	< 0.003	0.003	mg/L	6/7/10 21:22	58815	AG
Boron	2.63	0.2	mg/L	6/9/10	58815	AG
Cadmium	< 0.001	0.001	mg/L	6/7/10 21:22	58815	AG
Chromium	< 0.07	0.07	mg/L	6/7/10 21:22	58815	AG
Cobalt	< 0.07	0.07	mg/L	6/7/10 21:22	58815	AG
Iron	2.37	0.04	mg/L	6/7/10 21:22	58815	AG
Lead	< 0.005	0.005	mg/L	6/7/10 21:22	58815	AG
Manganese	2.	0.01	mg/L	6/7/10 21:22	58815	AG
Nickel	< 0.05	0.05	mg/L	6/7/10 21:22	58815	AG
Selenium	< 0.02	0.02	mg/L	6/7/10 21:22	58815	AG
Silver	< 0.05	0.05	mg/L	6/7/10 21:22	58815	AG
Thallium	< 0.002	0.002	mg/L	6/7/10 21:22	58815	AG
Zinc	0.0216	0.02	mg/L	6/7/10 21:22	58815	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanitiation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 10050636
Project: CWLP Ash Pond Table 1
Lab ID: 10050636-06

Client Sample ID: AP3
Report Date: 6/30/2010
Collection Date: 6/1/2010 8:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	87.6	2.	mg/L	6/2/10	R141509	MF
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	6/2/10	R141509	MF
Sulfate	319.	12.5	mg/L	6/2/10	R141509	MF
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	6/2/10	58804	CS2
Fluoride		**Method:**	**SM4500-F C**			
Fluoride	< 0.5	0.5	mg/L	6/8/10	R141751	MF
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1090.	20.	mg/L	6/2/10	R141593	IR
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/7/10	58908	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	6/7/10 21:28	58815	AG
Arsenic	0.0144	0.01	mg/L	6/7/10 21:28	58815	AG
Barium	0.135	0.02	mg/L	6/7/10 21:28	58815	AG
Beryllium	< 0.003	0.003	mg/L	6/7/10 21:28	58815	AG
Boron	11.9	0.2	mg/L	6/9/10	58815	AG
Cadmium	< 0.001	0.001	mg/L	6/7/10 21:28	58815	AG
Chromium	< 0.07	0.07	mg/L	6/7/10 21:28	58815	AG
Cobalt	< 0.07	0.07	mg/L	6/7/10 21:28	58815	AG
Iron	10.1	0.04	mg/L	6/7/10 21:28	58815	AG
Lead	< 0.005	0.005	mg/L	6/7/10 21:28	58815	AG
Manganese	9.25	0.01	mg/L	6/7/10 21:28	58815	AG
Nickel	< 0.05	0.05	mg/L	6/7/10 21:28	58815	AG
Selenium	< 0.02	0.02	mg/L	6/7/10 21:28	58815	AG
Silver	< 0.05	0.05	mg/L	6/7/10 21:28	58815	AG
Thallium	< 0.002	0.002	mg/L	6/7/10 21:28	58815	AG
Zinc	< 0.02	0.02	mg/L	6/7/10 21:28	58815	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 10050636
Project: CWLP Ash Pond Table 1
Lab ID: 10050636-07

Client Sample ID: AP4
Report Date: 6/30/2010
Collection Date: 6/1/2010 9:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	13.	2.	mg/L	6/2/10	R141509	MF
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	6/2/10	R141509	MF
Sulfate	< 5.	5.	mg/L	6/2/10	R141509	MF
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	6/2/10	58804	CS2
Fluoride		**Method:**	**SM4500-F C**			
Fluoride	< 0.5	0.5	mg/L	6/8/10	R141751	MF
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	522.	20.	mg/L	6/2/10	R141593	IR
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	6/4/10	58863	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	6/7/10 21:33	58815	AG
Arsenic	0.0225	0.01	mg/L	6/7/10 21:33	58815	AG
Barium	0.374	0.02	mg/L	6/7/10 21:33	58815	AG
Beryllium	< 0.003	0.003	mg/L	6/7/10 21:33	58815	AG
Boron	0.687	0.2	mg/L	6/9/10	58815	AG
Cadmium	< 0.001	0.001	mg/L	6/7/10 21:33	58815	AG
Chromium	< 0.07	0.07	mg/L	6/7/10 21:33	58815	AG
Cobalt	< 0.07	0.07	mg/L	6/7/10 21:33	58815	AG
Iron	11.2	0.04	mg/L	6/7/10 21:33	58815	AG
Lead	< 0.005	0.005	mg/L	6/7/10 21:33	58815	AG
Manganese	0.503	0.01	mg/L	6/7/10 21:33	58815	AG
Nickel	< 0.05	0.05	mg/L	6/7/10 21:33	58815	AG
Selenium	< 0.02	0.02	mg/L	6/7/10 21:33	58815	AG
Silver	< 0.05	0.05	mg/L	6/7/10 21:33	58815	AG
Thallium	< 0.002	0.002	mg/L	6/7/10 21:33	58815	AG
Zinc	< 0.02	0.02	mg/L	6/7/10 21:33	58815	AG

Qualifiers:
B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Chain of Custody Record

Scheduled Sampling Date: 05/17/2010
Due Date: 05/24/2010

COC # 503747

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP Ash Pond Table 1

SAMPLE TYPE:
0. Water 0. Fat 0. Liquid
0. Process Water 1. DI Water 2. Drinking Water
3. Soil 4. Extract 5. Wastewater
6. Oil 7. Sludge 8. Solid
9. Air 10. Chemical Waste 11. Wipe
12. Groundwater 13. ePoduct 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Other

Analysis
1. Anions by Ion Chromatography
2. Solids, Total Dissolved (TDS)
3. Fluoride by Electrode (ISE)
4. Cyanide, Total
5. ICP MS Metals, Total
6. Mercury, Groundwater Total

EMT USE ONLY
EMT WORKORDER 1005210

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP1 GRAB	12	1 liter	P	1	SR	6/1/10	8:15	7.44	1												
AP1 GRAB	5	1 liter	P	1					1												
AP1 GRAB	12	500 ml	P	1					4												
AP1 GRAB	12	500 ml	P	1					3												

Relinquished By	Date	Time	Received By	Date	Time
[signature]	6-1-10	9:45	[signature]	6-1-10	09:45
[signature]	6-1-10	17:20			
			[signature]	6/1/10	1720

EMT USE ONLY
Client ID: SPRING
Client Contact: Joe Pavlinac
EMT Project ID: CWLP Ash Pond Table 1
Lot No.

SAMPLES RECEIVED ON ICE
TEMPERATURE
(Must be recorded if shipping samples from location in sample receipt)

SPECIAL INSTRUCTIONS: TEMP 68.4°F Condo 327

5/17/2010 3:06:20 PM
Page 1

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Chain of Custody Record

Scheduled Sampling Date: 05/17/2010
Due Date: 05/24/2010

COC # 503747

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP Ash Pond Table 1

SAMPLE TYPE:
0. Water 0. Fat 0. Liquid
0. Process Water 1. DI Water 2. Drinking Water
3. Soil 4. Extract 5. Wastewater
6. Oil 7. Sludge 8. Solid
9. Air 10. Chemical Waste 11. Wipe
12. Groundwater 13. eProduct 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Other

Analysis
1. Anions by Ion Chromatography
2. Solids, Total Dissolved (TDS)
3. Fluoride by Electrode (ISE)
4. Cyanide, Total
5. ICP MS Metals, Total
6. Mercury, Groundwater Total

EMT USE ONLY
EMT WORKORDER
100562

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	EMT Sample I.D.
AP2	GRAB	12	1 liter	P	1	SC	6/1/10	15:25	8.89	1												
AP2	GRAB	5	1 liter	P	1	↓	↓	↓	↓	1												
AP2	GRAB	12	500 ml	P	1	↓	↓	↓	↓	4												
AP2	GRAB	12	500 ml	P	1	↓	↓	↓	↓	3												

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6-1-10	9:45		6-1-10	09:45
	6-1-10	17:20			
			MarAnall	6/1/10	1720

EMT USE ONLY
Client ID: SAMPLE ID:
Client Contact: Doc Pickering
EMT Project ID: CWLP Ash Pond Table 1
Bill To: Same

SAMPLE RECEIVED ON ICE
TEMPERATURE

SPECIAL INSTRUCTIONS: TEMP 68.7°F Condo 742

5/17/2010 3:06:20 PM
Page 2

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Chain of Custody Record

Scheduled Sampling Date: 05/17/2010
Due Date: 05/24/2010

COC # 503747

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP Ash Pond Table 1

SAMPLE TYPE:
0. Water | 0. Fat | 0. Liquid
0. Process Water | 1. DI Water | 2. Drinking Water
3. Soil | 4. Extract | 5. Wastewater
6. Oil | 7. Sludge | 8. Solid
9. Air | 10. Chemical Waste | 11. Wipe
12. Groundwater | 13. eProduct | 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic | V - VOC Vial | G - Glass
B - Tedlar Bag | O - Other

PRESERVATIVE:
1. None | 2. H2SO4 | 3. HNO3
4. NaOH | 5. HCL | 6. MeOH
7. Zn Ace | 8. Other

Analysis
1. Anions by Ion Chromatography
2. Solids, Total Dissolved (TDS)
3. Fluoride by Electrode (ISE)
4. Cyanide, Total
5. ICP MS Metals, Total
6. Mercury, Groundwater Total

EMT USE ONLY
EMT WORKORDER #10506340

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP3 GRAB	12	1 liter	P	1	[illegible]	6/1/10	[illegible]	6.73	1												
AP3 GRAB	5	1 liter	P	1	↓	↓	↓	↓	1												
AP3 GRAB	12	500 ml	P	1	↓	↓	↓	↓	4												
AP3 GRAB	12	500 ml	P	1	↓	↓	↓	↓	3												

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	6-1-10	9:45	[signature]	6-1-10	9:45
[signature]	6-1-10	17:20		- -	: :
	- -	: :	[signature]	6-1-10	1720

EMT USE ONLY
Client ID: STRING
Client Contact: Bill Perkins
Work Project ID: CWLP Ash Pond Table 1
Lab Job No.:

SAMPLE RECEIVED ON ICE
TEMPERATURE: 2.6
(Must be checked if sampling [illegible])

SPECIAL INSTRUCTIONS: TEMP 67.7°F Condo 1128

5/17/2010 3:06:20 PM
Page 3

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Chain of Custody Record

Scheduled Sampling Date: 05/17/2010
Due Date: 05/24/2010

COC # 503747

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP Ash Pond Table 1

SAMPLE TYPE:
0. Water 0. Fat 0. Liquid
0. Process Water 1. DI Water 2. Drinking Water
3. Soil 4. Extract 5. Wastewater
6. Oil 7. Sludge 8. Solid
9. Air 10. Chemical Waste 11. Wipe
12. Groundwater 13. eProduct 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Other

Analysis
1. Anions by Ion Chromatography
2. Solids, Total Dissolved (TDS)
3. Fluoride by Electrode (ISE)
4. Cyanide, Total
5. ICP MS Metals, Total
6. Mercury, Groundwater Total

EMT USE ONLY
EMT WORKORDER # 1005030

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP4 GRAB	12	1 liter	P	1		6/1/10	9:05	6.91	1												
AP4 GRAB	5	1 liter	P	1					1												
AP4 GRAB	12	500 ml	P	1					4												
AP4 GRAB	12	500 ml	P	1					3												

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6-1-10	9:45		6-1-10	09:45
	6-1-10	17:20			
				6/1/10	17:20

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavlosky
EMT Project ID: CWLP Ash Pond Table 1
Jar Rcd No:

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sample(s) was received)

SPECIAL INSTRUCTIONS: TEMP 67.9°F Condo 708

5/17/2010 3:06:21 PM
Page 4

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Chain of Custody Record

Scheduled Sampling Date: 05/17/2010
Due Date: 05/24/2010

COC # 503747

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP Ash Pond Table 1

SAMPLE TYPE:
0. Water 0. Fat 0. Liquid
0. Process Water 1. DI Water 2. Drinking Water
3. Soil 4. Extract 5. Wastewater
6. Oil 7. Sludge 8. Solid
9. Air 10. Chemical Waste 11. Wipe
12. Groundwater 13. eProduct 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Other

Analysis
1. Anions by Ion Chromatography
2. Solids, Total Dissolved (TDS)
3. Fluoride by Electrode (ISE)
4. Cyanide, Total
5. ICP MS Metals, Total
6. Mercury, Groundwater Total

EMT USE ONLY
EMT WORKORDER #100516B0

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Unit	Sample I.D. #
AW3 GRAB	12	1 liter	P	1	SC	6/1/10	8:40	6.63	1													
AW3 GRAB	5	1 liter	P	1					1													
AW3 GRAB	12	500 ml	P	1					4													
AW3 GRAB	12	500 ml	P	1					3													

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6-1-10	9:45		6-1-10	09:45
	6-1-10	17:20		- -	:
	- -	:		6/1/10	17:20

EMT USE ONLY
SAMPLE PRESERVED ONICE
TEMPERATURE

SPECIAL INSTRUCTIONS: TEMP 71.1°F Condo 616

5/17/2010 3:06:21 PM
Page 5

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Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

April 20, 2012

RE CWLP AP Wells

Lab Orders:
12020654

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Mitchell Ostrowski
Laboratory Director

This Report Contains 18 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

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CLIENT: City, Water, Light & Power

Project: CWLP AP Wells

Lab Order: 12020654

Date: *4/20/2012*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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CLIENT: City, Water, Light & Power

Date: *4/20/2012*

Project: CWLP AP Wells

CASE NARRATIVE

Lab Order: 12020654

Analytical Comments for METHOD 7470A_GRNDWTR, 12020654-02EDUP: The sample was run in duplicate to confirm the mercury result.

Analytical Comments for METHOD 7470A_GRNDWTR, 12020654-05EDUP: The sample was run in duplicate to confirm the mercury result.

Analytical Comments for METHOD RADIATION, 12020654-01A, 02A, 03A, 04A, 05A: The Radium by Methods 7500-Ra B and 7500-Ra D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-01

Client Sample ID: AP-1
Report Date: 4/20/2012
Collection Date: 2/22/2012 12:20:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**		**SM4500-H**			
pH	7.01			pH units	2/22/12 12:20	R168104	JC
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	42.7	2.		mg/L	2/23/12	R166064	GSB
Fluoride	< 0.5	0.5		mg/L	2/23/12	R166064	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	2/23/12	R166064	GSB
Sulfate	521.	50.		mg/L	2/23/12	R166064	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01		mg/L	2/24/12 10:24	72204	CS2
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1070.	10.		mg/L	2/23/12 12:00	R166105	LS3
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	14.6	0.063	C	mg/L	2/24/12 10:25	72216	AG
Iron	35.3	0.125		mg/L	2/24/12 10:25	72216	AG
Manganese	0.702	0.063		mg/L	2/24/12 10:25	72216	AG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005		mg/L	2/23/12 12:49	72231	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	< 0.006	0.006		mg/L	2/27/12 12:22	72216	AG
Arsenic	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG
Barium	< 2.	2.		mg/L	2/27/12 12:22	72216	AG
Beryllium	< 0.004	0.004		mg/L	2/27/12 12:22	72216	AG
Cadmium	< 0.005	0.005		mg/L	2/27/12 12:22	72216	AG
Chromium	< 0.1	0.1		mg/L	2/27/12 12:22	72216	AG
Cobalt	< 1.	1.		mg/L	2/27/12 12:22	72216	AG
Copper	< 0.65	0.65		mg/L	2/27/12 12:22	72216	AG
Lead	0.0184	0.0075		mg/L	2/27/12 12:22	72216	AG
Nickel	< 0.1	0.1		mg/L	2/27/12 12:22	72216	AG
Selenium	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-01

Client Sample ID: AP-1
Report Date: 4/20/2012
Collection Date: 2/22/2012 12:20:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Silver	< 0.05	0.05	mg/L	2/27/12 12:22	72216	AG
Thallium	< 0.002	0.002	mg/L	2/27/12 12:22	72216	AG
Zinc	< 0.0575	0.0575	mg/L	2/28/12 12:06	72216	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.2	0.5	pCi/L	3/21/12	R167933	OUT
Radium-228	1.9	0.9	pCi/L	3/21/12	R167933	OUT

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-02

Client Sample ID: AP-2
Report Date: 4/20/2012
Collection Date: 2/22/2012 12:05:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**		**SM4500-H**			
pH	6.65			pH units	2/22/12 12:05	R168104	JC
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	19.3	2.		mg/L	2/23/12	R166064	GSB
Fluoride	< 0.05	0.05		mg/L	2/23/12	R166064	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	2/23/12	R166064	GSB
Sulfate	211.	50.		mg/L	2/23/12	R166064	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01		mg/L	2/24/12 10:24	72204	CS2
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	770.	10.		mg/L	2/23/12 12:00	R166105	LS3
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	5.	0.625	C	mg/L	2/27/12 11:05	72216	CS2
Iron	242.	1.25		mg/L	2/27/12 11:05	72216	CS2
Manganese	21.4	0.063		mg/L	2/24/12 10:25	72216	AG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	0.0006	0.0005		mg/L	2/23/12 12:49	72231	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	< 0.006	0.006		mg/L	2/27/12 12:22	72216	AG
Arsenic	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG
Barium	< 2.	2.		mg/L	2/27/12 12:22	72216	AG
Beryllium	0.00675	0.004		mg/L	2/27/12 12:22	72216	AG
Cadmium	< 0.005	0.005		mg/L	2/27/12 12:22	72216	AG
Chromium	0.277	0.1		mg/L	2/27/12 12:22	72216	AG
Cobalt	< 1.	1.		mg/L	2/27/12 12:22	72216	AG
Copper	< 0.65	0.65		mg/L	2/27/12 12:22	72216	AG
Lead	0.226	0.0075		mg/L	2/27/12 12:22	72216	AG
Nickel	0.13	0.1		mg/L	2/27/12 12:22	72216	AG
Selenium	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG

Qualifiers:

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H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-02

Client Sample ID: AP-2
Report Date: 4/20/2012
Collection Date: 2/22/2012 12:05:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Silver	< 0.05	0.05	mg/L	2/27/12 12:22	72216	AG
Thallium	0.00225	0.002	mg/L	2/27/12 12:22	72216	AG
Zinc	0.408	0.0575	mg/L	2/28/12 12:06	72216	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	2.7	0.4	pCi/L	3/21/12	R167933	OUT
Radium-228	7.3	1.5	pCi/L	3/21/12	R167933	OUT

Qualifiers:

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H - Holding Time Exceeded
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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-03

Client Sample ID: AP-3
Report Date: 4/20/2012
Collection Date: 2/22/2012 11:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**		**SM4500-H**			
pH	6.58			pH units	2/22/12 11:45	R168104	JC
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	52.5	2.		mg/L	2/23/12	R166064	GSB
Fluoride	< 0.5	0.5		mg/L	2/23/12	R166064	GSB
Nitrogen, Nitrate (As N)	0.23	0.05		mg/L	2/23/12	R166064	GSB
Sulfate	281.	5.		mg/L	2/23/12	R166064	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01		mg/L	2/24/12 10:24	72204	CS2
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	852.	10.		mg/L	2/23/12 12:00	R166105	LS3
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	17.7	0.063	C	mg/L	2/24/12 10:25	72216	AG
Iron	13.6	0.125		mg/L	2/24/12 10:25	72216	AG
Manganese	10.6	0.063		mg/L	2/24/12 10:25	72216	AG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005		mg/L	2/23/12 12:49	72231	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	< 0.006	0.006		mg/L	2/27/12 12:22	72216	AG
Arsenic	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG
Barium	< 2.	2.		mg/L	2/27/12 12:22	72216	AG
Beryllium	< 0.004	0.004		mg/L	2/27/12 12:22	72216	AG
Cadmium	< 0.005	0.005		mg/L	2/27/12 12:22	72216	AG
Chromium	< 0.1	0.1		mg/L	2/27/12 12:22	72216	AG
Cobalt	< 1.	1.		mg/L	2/27/12 12:22	72216	AG
Copper	< 0.65	0.65		mg/L	2/27/12 12:22	72216	AG
Lead	0.0084	0.0075		mg/L	2/27/12 12:22	72216	AG
Nickel	< 0.1	0.1		mg/L	2/27/12 12:22	72216	AG
Selenium	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG

Qualifiers:

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Response to 1st RTP
CWLP - 02063

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-03

Client Sample ID: AP-3
Report Date: 4/20/2012
Collection Date: 2/22/2012 11:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Silver	< 0.05	0.05	mg/L	2/27/12 12:22	72216	AG
Thallium	< 0.002	0.002	mg/L	2/27/12 12:22	72216	AG
Zinc	< 0.0575	0.0575	mg/L	2/28/12 12:06	72216	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.68	0.4	pCi/L	3/21/12	R167933	OUT
Radium-228	4.	1.1	pCi/L	3/21/12	R167933	OUT

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-04

Client Sample ID: AP-4
Report Date: 4/20/2012
Collection Date: 2/22/2012 11:25:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**				
pH	6.81			pH units	2/22/12 11:25	R168104	JC
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	10.1	2.		mg/L	2/23/12	R166064	GSB
Fluoride	< 0.5	0.5		mg/L	2/23/12	R166064	GSB
Nitrogen, Nitrate (As N)	0.12	0.05		mg/L	2/23/12	R166064	GSB
Sulfate	< 5.	5.		mg/L	2/23/12	R166064	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.01	0.01		mg/L	2/24/12 10:24	72204	CS2
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	490.	10.		mg/L	2/23/12 12:00	R166105	LS3
ICP Metals, Groundwater Total		**Method:**	**SW6010C / SW3015**				
Boron	0.119	0.063	C	mg/L	2/24/12 10:25	72216	AG
Iron	11.	0.125		mg/L	2/24/12 10:25	72216	AG
Manganese	0.254	0.063		mg/L	2/24/12 10:25	72216	AG
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.0005	0.0005		mg/L	2/23/12 12:49	72231	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	< 0.006	0.006		mg/L	2/27/12 12:22	72216	AG
Arsenic	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG
Barium	< 2.	2.		mg/L	2/27/12 12:22	72216	AG
Beryllium	< 0.004	0.004		mg/L	2/27/12 12:22	72216	AG
Cadmium	< 0.005	0.005		mg/L	2/27/12 12:22	72216	AG
Chromium	< 0.1	0.1		mg/L	2/27/12 12:22	72216	AG
Cobalt	< 1.	1.		mg/L	2/27/12 12:22	72216	AG
Copper	< 0.65	0.65		mg/L	2/27/12 12:22	72216	AG
Lead	< 0.0075	0.0075		mg/L	2/27/12 12:22	72216	AG
Nickel	< 0.1	0.1		mg/L	2/27/12 12:22	72216	AG
Selenium	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	12020654	**Report Date:**	4/20/2012
Project:	CWLP AP Wells	**Collection Date:**	2/22/2012 11:25:00 AM
Lab ID:	12020654-04	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Silver	< 0.05	0.05	mg/L	2/27/12 12:22	72216	AG
Thallium	< 0.002	0.002	mg/L	2/27/12 12:22	72216	AG
Zinc	< 0.0575	0.0575	mg/L	2/28/12 12:06	72216	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.44	0.36	pCi/L	3/21/12	R167933	OUT
Radium-228	2.2	1.6	pCi/L	3/21/12	R167933	OUT

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12020654	**Report Date:**	4/20/2012
Project:	CWLP AP Wells	**Collection Date:**	2/22/2012 10:30:00 AM
Lab ID:	12020654-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**		**SM4500-H**			
pH	7.33			pH units	2/22/12 10:30	R168104	JC
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	24.2	2.		mg/L	2/23/12	R166064	GSB
Fluoride	0.62	0.5		mg/L	2/23/12	R166064	GSB
Nitrogen, Nitrate (As N)	0.15	0.05		mg/L	2/23/12	R166064	GSB
Sulfate	82.3	5.		mg/L	2/23/12	R166064	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01		mg/L	2/24/12 10:24	72204	CS2
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	414.	10.		mg/L	2/23/12 12:00	R166105	LS3
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	< 1.	1.	C	mg/L	2/27/12 11:05	72216	CS2
Iron	1140.	2.		mg/L	2/27/12 11:05	72216	CS2
Manganese	21.4	0.1		mg/L	2/24/12 10:25	72216	AG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	0.0008	0.0005		mg/L	2/23/12 12:49	72231	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	< 0.006	0.006		mg/L	2/27/12 12:22	72216	AG
Arsenic	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG
Barium	5.24	2.		mg/L	2/27/12 12:22	72216	AG
Beryllium	0.0142	0.004		mg/L	2/27/12 12:22	72216	AG
Cadmium	0.00776	0.005		mg/L	2/27/12 12:22	72216	AG
Chromium	0.811	0.1		mg/L	2/27/12 12:22	72216	AG
Cobalt	< 1.	1.		mg/L	2/27/12 12:22	72216	AG
Copper	< 0.65	0.65		mg/L	2/27/12 12:22	72216	AG
Lead	0.638	0.0075		mg/L	2/27/12 12:22	72216	AG
Nickel	0.358	0.1		mg/L	2/27/12 12:22	72216	AG
Selenium	< 0.05	0.05		mg/L	2/27/12 12:22	72216	AG

Qualifiers:

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H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12020654
Project: CWLP AP Wells
Lab ID: 12020654-05

Client Sample ID: AP-5
Report Date: 4/20/2012
Collection Date: 2/22/2012 10:30:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Silver	< 0.05	0.05	mg/L	2/27/12 12:22	72216	AG
Thallium	0.00556	0.002	mg/L	2/27/12 12:22	72216	AG
Zinc	0.822	0.092	mg/L	2/28/12 12:06	72216	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	5.2	0.5	pCi/L	3/21/12	R167933	OUT
Radium-228	8.8	1.4	pCi/L	3/21/12	R167933	OUT

Qualifiers:

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E - Estimated
H - Holding Time Exceeded
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2012
Due Date: 02/24/2012

COC # 504462

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER #120204SA

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Preservation pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1 GRAB	12	1 liter	G	2	EJ	2/22/12	1220	7.01	1		X										1A
AP-1 GRAB	12	1 liter	P	1	EJ	2/22/12	1220	7.01	1			X									B
AP-1 GRAB	12	500 ml	P	1	EJ	2/22/12	1220	7.01	4				X								C
AP-1 GRAB	12	500 ml	P	1	EJ	2/22/12	1220	7.01	1					X							D
AP-1 GRAB	12	500 ml	P	1	EJ	2/22/12	1220	7.01	3						X						E

Relinquished By:	Date: 2-22-12 Time: 12:45	Received By:	Date: 2-22-12 Time: 12:45
Relinquished By:	Date: 2-22-12 Time: 12:10	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: 2/22/12 Time: 10 :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

2/17/2012 1:53:48 PM
Page 1

Response to 1st RTP
CWLP - 02069

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2012
Due Date: 02/24/2012

COC # 504462

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # 12020154

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2 GRAB	12	1 liter	G	2		2/22/12	12:05	6.65	1		X										A
AP-2 GRAB	12	1 liter	P	1		2/22/12	12:05	6.65	1			X									B
AP-2 GRAB	12	500 ml	P	1		2/22/12	12:05	6.65	4				X								C
AP-2 GRAB	12	500 ml	P	1		2/22/12	12:05	6.65	1					X							D
AP-2 GRAB	12	500 ml	P	1		2/22/12	12:05	6.65	3						X						E

Relinquished By:	Date: 2-22-12 Time: 16:10	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: 2-22-12 Time: 16:10

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)
3C

SPECIAL INSTRUCTIONS:

2/17/2012 1:53:48 PM
Page 2

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2012
Due Date: 02/24/2012

COC # 504462

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER #120208SA

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	1 liter	G	2		2/22/12	11:45	6.58	1		X										12A
AP-3	GRAB	12	1 liter	P	1		2/22/12	11:45	6.58	1			X									12B
AP-3	GRAB	12	500 ml	P	1		2/22/12	11:45	6.58	4				X								12C
AP-3	GRAB	12	500 ml	P	1		2/22/12	11:45	6.58	1					X							12D
AP-3	GRAB	12	500 ml	P	1		2/22/12	11:45	6.58	3						X						12E

Relinquished By:	Date: 2-22-12 Time: 16:10	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By:	Date: 2-22-12 Time: 16:10	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

2/17/2012 1:53:49 PM

Response to 1st RTP
CWLP - 02071

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2012
Due Date: 02/24/2012

COC # 504462

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # 12020054

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	1 liter	G	2		2/22/12	11:25	6.81	1		X										A
AP-4	GRAB	12	1 liter	P	1		2/22/12	11:25	6.81	1			X									B
AP-4	GRAB	12	500 ml	P	1		2/22/12	11:25	6.81	4				X								C
AP-4	GRAB	12	500 ml	P	1		2/22/12	11:25	6.81	1					X							D
AP-4	GRAB	12	500 ml	P	1		2/22/12	11:25	6.81	3						X						E

Relinquished By:	Date: 2-22-12 Time: 16:10	Received By:	Date: - - Time: :	EMT USE ONLY
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: :	Received By:	Date: 2/22/12 Time: 16:10	Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

Response to 1st RTP
CWLP - 02072

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2012
Due Date: 02/24/2012

COC # 504462

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # T0800[illegible]

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	1 liter	G	2	[illegible]	2/22/12	10:30	7.33	1		X										A
AP-5	GRAB	12	1 liter	P	1	[illegible]	2/22/12	10:30	7.33	1			X									B
AP-5	GRAB	12	500 ml	P	1	[illegible]	2/22/12	10:30	7.33	4				X								C
AP-5	GRAB	12	500 ml	P	1	[illegible]	2/22/12	10:30	7.33	1					X							D
AP-5	GRAB	12	500 ml	P	1	[illegible]	2/22/12	10:30	7.33	3						X						E

Relinquished By: [signature]	Date: 2-22-12 Time: 16:10	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By: [signature]	Date: 2-22-12 Time: 1610	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

2/17/2012 1:53:49 PM

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Report of Laboratory Analysis

CLIENT: City, Water, Light, and Power
Lab Order: 12020652
Project: CWLP 1Q12 Groundwater Analysis
Lab ID: 12020652-09

Client Sample ID: AW-3
Report Date: 3/27/2012
Collection Date: 2/22/2012 11:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Conductance (On-site)		**Method:**	**SM2510B**				
Specific Conductance	372.		C	uS/cm	2/22/12 11:00	R167039	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**				
pH	7.89			pH units	2/22/12 11:00	R167039	DD1
Temperature Fahrenheit		**Method:**	**SM2550-B**				
Temperature	57	1		°F	2/22/12 11:00	R167039	DD1
Ammonia as N		**Method:**	**SM4500-NH3-B-C**				
Nitrogen, Ammonia (As N)	0.56	0.16		mg/L	3/1/12 14:00	72366	TTT
Anions by Ion Chromatography		**Method:**	**SW9056**				
Nitrogen, Nitrate (As N)	< 0.5	0.5		mg/L	2/23/12	R166064	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.01	0.01		mg/L	2/24/12 10:24	72204	CS2
Dissolved Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	46.2	2.		mg/L	2/22/12	R165985	GSB
Nitrogen, Nitrate (As N)	< 0.2	0.2		mg/L	2/22/12	R165985	GSB
Sulfate	99.4	5.		mg/L	2/22/12	R165985	GSB
Soluble Ammonia as N		**Method:**	**4500-NH3-B-C**				
Nitrogen, Ammonia (As N)	0.56	0.16		mg/L	3/1/12 14:00	72366	TTT
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	314.	10.		mg/L	2/23/12 12:00	R166105	LS3
ICP Metals, Groundwater Dissolved		**Method:**	**SW6010C / SW3005A**				
Boron	< 0.556	0.556	C	mg/L	3/2/12 11:41	72217	CS2
Magnesium	24.6	1.39		mg/L	3/2/12 11:41	72217	CS2
ICP Metals, Groundwater Total		**Method:**	**SW6010C / SW3015**				
Boron	0.104	0.063	C	mg/L	2/24/12 10:25	72216	AG
Mercury in Groundwater, Dissolved		**Method:**	**SW7470A / HG PREP**				

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light, and Power	**Client Sample ID:**	AW-3
Lab Order:	12020652	**Report Date:**	3/27/2012
Project:	CWLP 1Q12 Groundwater Analysis	**Collection Date:**	2/22/2012 11:00:00 AM
Lab ID:	12020652-09	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury	< 0.0005	0.0005	mg/L	2/24/12 13:20	72250	IG
Metals, Dissolved		**Method:**	**SW6020A / SW3005A**			
Arsenic	0.0262	0.0111	mg/L	2/29/12 01:20	72217	AG
Cadmium	< 0.005	0.005	mg/L	2/29/12 01:20	72217	AG
Chromium	< 0.0156	0.0156	mg/L	2/29/12 01:20	72217	AG
Lead	< 0.00444	0.00444	mg/L	2/29/12 01:20	72217	AG
Zinc	< 0.02	0.02	mg/L	2/29/12 01:20	72217	AG

Qualifiers:

- B - Analyte detected in the associated Method Blank
- E - Estimated
- H - Holding Time Exceeded
- C - Laboratory not accredited for this parameter
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- J - Analyte detected below quanititation limits

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Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

June 04, 2012

RE CWLP AP Wells

Lab Orders:
12040727

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Mitchell Ostrowski
Laboratory Director

This Report Contains 18 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

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CLIENT: City, Water, Light & Power
Project: CWLP AP Wells
Lab Order: 12040727

Date: *6/4/2012*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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CLIENT: City, Water, Light & Power
Project: CWLP AP Wells
Lab Order: 12040727

Date: *6/4/2012*

CASE NARRATIVE

Analytical Comments for METHOD RADIATION, 12040727-01A, 02A, 03A, 04A, 05A: The Radium-226/228 analysis by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 7:30:00 AM
Lab ID:	12040727-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	38.2	0.2		mg/L	4/27/12	R168754	GSB
Fluoride	< 0.5	0.5		mg/L	5/5/12	R169125	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	4/27/12	R168754	GSB
Sulfate	463.	50.		mg/L	4/27/12	R168754	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.01	0.01		mg/L	4/30/12 11:15	73572	CS2
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	1080.	10.		mg/L	4/30/12 23:40	R168916	LS3
ICP Metals, Groundwater Total		**Method:**	**SW6010C / SW3015**				
Boron	10.4	0.063	C	mg/L	4/30/12 15:56	73525	AG
Iron	18.3	0.125		mg/L	4/30/12 15:56	73525	AG
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.0005	0.0005		mg/L	4/27/12 11:44	73563	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	< 0.006	0.006		mg/L	4/30/12 15:00	73525	AG
Arsenic	< 0.05	0.05		mg/L	4/27/12 18:13	73525	AG
Barium	< 2.	2.		mg/L	4/27/12 18:13	73525	AG
Beryllium	< 0.004	0.004		mg/L	4/27/12 18:13	73525	AG
Cadmium	< 0.005	0.005		mg/L	4/27/12 18:13	73525	AG
Chromium	< 0.1	0.1		mg/L	4/27/12 18:13	73525	AG
Cobalt	< 1.	1.		mg/L	4/27/12 18:13	73525	AG
Copper	< 0.65	0.65		mg/L	4/27/12 18:13	73525	AG
Lead	< 0.0075	0.0075		mg/L	4/27/12 18:13	73525	AG
Manganese	0.864	0.15		mg/L	4/27/12 18:13	73525	AG
Nickel	< 0.1	0.1		mg/L	4/27/12 18:13	73525	AG
Selenium	< 0.05	0.05		mg/L	4/27/12 18:13	73525	AG
Silver	< 0.05	0.05		mg/L	4/27/12 18:13	73525	AG
Thallium	< 0.002	0.002		mg/L	4/27/12 18:13	73525	AG
Zinc	< 0.0575	0.0575		mg/L	4/27/12 18:13	73525	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 7:30:00 AM
Lab ID:	12040727-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	2.4	0.4	pCi/L	5/17/12	R170280	OUT
Radium-228	2.	0.6	pCi/L	5/17/12	R170280	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 12:25:00 PM
Lab ID:	12040727-02	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	13.	0.2		mg/L	4/27/12	R168754	GSB
Fluoride	< 0.5	0.5		mg/L	5/5/12	R169125	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	4/27/12	R168754	GSB
Sulfate	201.	5.		mg/L	4/27/12	R168754	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.01	0.01		mg/L	4/30/12 11:15	73572	CS2
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	866.	10.		mg/L	4/30/12 23:40	R168916	LS3
ICP Metals, Groundwater Total		**Method:**	**SW6010C / SW3015**				
Boron	5.51	0.063	C	mg/L	4/30/12 15:56	73525	AG
Iron	59.2	0.125		mg/L	4/30/12 15:56	73525	AG
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.0005	0.0005		mg/L	4/27/12 11:44	73563	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	< 0.006	0.006		mg/L	4/30/12 15:00	73525	AG
Arsenic	< 0.05	0.05		mg/L	4/27/12 18:19	73525	AG
Barium	< 2.	2.		mg/L	4/27/12 18:19	73525	AG
Beryllium	< 0.004	0.004		mg/L	4/27/12 18:19	73525	AG
Cadmium	< 0.005	0.005		mg/L	4/27/12 18:19	73525	AG
Chromium	< 0.1	0.1		mg/L	4/27/12 18:19	73525	AG
Cobalt	< 1.	1.		mg/L	4/27/12 18:19	73525	AG
Copper	< 0.65	0.65		mg/L	4/27/12 18:19	73525	AG
Lead	0.047	0.0075		mg/L	4/27/12 18:19	73525	AG
Manganese	20.7	0.15		mg/L	4/27/12 18:19	73525	AG
Nickel	< 0.1	0.1		mg/L	4/27/12 18:19	73525	AG
Selenium	< 0.05	0.05		mg/L	4/27/12 18:19	73525	AG
Silver	< 0.05	0.05		mg/L	4/27/12 18:19	73525	AG
Thallium	< 0.002	0.002		mg/L	4/27/12 18:19	73525	AG
Zinc	0.228	0.0575		mg/L	4/27/12 18:19	73525	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 12:25:00 PM
Lab ID:	12040727-02	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.5	0.1	pCi/L	5/17/12	R170280	OUT
Radium-228	2.5	0.6	pCi/L	5/17/12	R170280	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12040727
Project: CWLP AP Wells
Lab ID: 12040727-03

Client Sample ID: AP-3
Report Date: 6/4/2012
Collection Date: 4/25/2012 12:05:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	46.2	0.2		mg/L	4/27/12	R168754	GSB
Fluoride	< 0.5	0.5		mg/L	5/5/12	R169125	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	4/27/12	R168754	GSB
Sulfate	274.	5.		mg/L	4/27/12	R168754	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01		mg/L	4/30/12 11:15	73572	CS2
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	926.	10.		mg/L	5/1/12 14:00	R168985	LS3
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	18.4	0.063	C	mg/L	4/30/12 15:56	73525	AG
Iron	14.	0.125		mg/L	4/30/12 15:56	73525	AG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005		mg/L	4/27/12 11:44	73563	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	< 0.006	0.006		mg/L	4/30/12 15:00	73525	AG
Arsenic	< 0.05	0.05		mg/L	4/27/12 18:24	73525	AG
Barium	< 2.	2.		mg/L	4/27/12 18:24	73525	AG
Beryllium	< 0.004	0.004		mg/L	4/27/12 18:24	73525	AG
Cadmium	< 0.005	0.005		mg/L	4/27/12 18:24	73525	AG
Chromium	< 0.1	0.1		mg/L	4/27/12 18:24	73525	AG
Cobalt	< 1.	1.		mg/L	4/27/12 18:24	73525	AG
Copper	< 0.65	0.65		mg/L	4/27/12 18:24	73525	AG
Lead	< 0.0075	0.0075		mg/L	4/27/12 18:24	73525	AG
Manganese	7.24	0.15		mg/L	4/27/12 18:24	73525	AG
Nickel	< 0.1	0.1		mg/L	4/27/12 18:24	73525	AG
Selenium	< 0.05	0.05		mg/L	4/27/12 18:24	73525	AG
Silver	< 0.05	0.05		mg/L	4/27/12 18:24	73525	AG
Thallium	< 0.002	0.002		mg/L	4/27/12 18:24	73525	AG
Zinc	< 0.0575	0.0575		mg/L	4/27/12 18:24	73525	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 12:05:00 PM
Lab ID:	12040727-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.7	0.37	pCi/L	5/17/12	R170280	OUT
Radium-228	1.1	0.7	pCi/L	5/17/12	R170280	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 11:25:00 AM
Lab ID:	12040727-04	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	9.85	0.2		mg/L	4/27/12	R168754	GSB
Fluoride	< 0.5	0.5		mg/L	5/5/12	R169125	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	4/27/12	R168754	GSB
Sulfate	< 5.	5.		mg/L	5/5/12	R169125	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01		mg/L	4/30/12 11:15	73572	CS2
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	560.	10.		mg/L	5/1/12 14:00	R168985	LS3
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	0.123	0.063	C	mg/L	4/30/12 15:56	73525	AG
Iron	9.22	0.125		mg/L	4/30/12 15:56	73525	AG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005		mg/L	4/27/12 11:44	73563	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	< 0.006	0.006		mg/L	4/30/12 15:00	73525	AG
Arsenic	< 0.05	0.05		mg/L	4/27/12 18:30	73525	AG
Barium	< 2.	2.		mg/L	4/27/12 18:30	73525	AG
Beryllium	< 0.004	0.004		mg/L	4/27/12 18:30	73525	AG
Cadmium	< 0.005	0.005		mg/L	4/27/12 18:30	73525	AG
Chromium	< 0.1	0.1		mg/L	4/27/12 18:30	73525	AG
Cobalt	< 1.	1.		mg/L	4/27/12 18:30	73525	AG
Copper	< 0.65	0.65		mg/L	4/27/12 18:30	73525	AG
Lead	< 0.0075	0.0075		mg/L	4/27/12 18:30	73525	AG
Manganese	0.186	0.15		mg/L	4/27/12 18:30	73525	AG
Nickel	< 0.1	0.1		mg/L	4/27/12 18:30	73525	AG
Selenium	< 0.05	0.05		mg/L	4/27/12 18:30	73525	AG
Silver	< 0.05	0.05		mg/L	4/27/12 18:30	73525	AG
Thallium	< 0.002	0.002		mg/L	4/27/12 18:30	73525	AG
Zinc	< 0.0575	0.0575		mg/L	4/27/12 18:30	73525	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 11:25:00 AM
Lab ID:	12040727-04	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.59	0.52	pCi/L	5/17/12	R170280	OUT
Radium-228	ND	0.73	pCi/L	5/17/12	R170280	OUT

Qualifiers:

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R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 10:40:00 AM
Lab ID:	12040727-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	7.23	0.2		mg/L	5/1/12	R168937	GSB
Fluoride	< 0.5	0.5		mg/L	5/5/12	R169125	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05		mg/L	4/27/12	R168754	GSB
Sulfate	43.5	5.		mg/L	4/27/12	R168754	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.01	0.01		mg/L	4/30/12 11:15	73572	CS2
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	404.	10.		mg/L	5/1/12 14:00	R168985	LS3
ICP Metals, Groundwater Total		**Method:**	**SW6010C / SW3015**				
Boron	< 0.625	0.625	C	mg/L	5/2/12 09:38	73525	CS2
Iron	435.	1.25		mg/L	5/2/12 09:38	73525	CS2
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.0005	0.0005		mg/L	4/30/12 13:01	73601	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	< 0.006	0.006		mg/L	4/30/12 15:00	73525	AG
Arsenic	0.076	0.05		mg/L	4/27/12 18:35	73525	AG
Barium	< 2.	2.		mg/L	4/27/12 18:35	73525	AG
Beryllium	0.0128	0.004		mg/L	4/27/12 18:35	73525	AG
Cadmium	0.0128	0.005		mg/L	4/27/12 18:35	73525	AG
Chromium	0.328	0.1		mg/L	4/27/12 18:35	73525	AG
Cobalt	< 1.	1.		mg/L	4/27/12 18:35	73525	AG
Copper	< 0.65	0.65		mg/L	4/27/12 18:35	73525	AG
Lead	0.236	0.0075		mg/L	4/27/12 18:35	73525	AG
Manganese	7.91	0.15		mg/L	4/27/12 18:35	73525	AG
Nickel	0.539	0.1		mg/L	4/27/12 18:35	73525	AG
Selenium	< 0.05	0.05		mg/L	4/27/12 18:35	73525	AG
Silver	< 0.05	0.05		mg/L	4/27/12 18:35	73525	AG
Thallium	0.00258	0.002		mg/L	4/27/12 18:35	73525	AG
Zinc	1.09	0.0575		mg/L	4/27/12 18:35	73525	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12040727	**Report Date:**	6/4/2012
Project:	CWLP AP Wells	**Collection Date:**	4/25/2012 10:40:00 AM
Lab ID:	12040727-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.5	0.5	pCi/L	5/17/12	R170280	OUT
Radium-228	1.4	0.7	pCi/L	5/17/12	R170280	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanitiation limits

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 04/25/2012
Due Date: 05/02/2012

COC # 504526

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER #1204072 7

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	1 liter	G	2	DD	4-25-12	7:30	7.10	1												1A
AP-1	GRAB	12	1 liter	P	1	DD	4-25-12	7:30	7.10	1												B
AP-1	GRAB	12	500 ml	P	1	DD	4-25-12	7:30	7.10	4												C
AP-1	GRAB	12	500 ml	P	1	DD	4-25-12	7:30	7.10	1												D
AP-1	GRAB	12	500 ml	P	1	DD	4-25-12	7:30	7.10	3												E

Relinquished By:	Date: - -	Received By:	Date: 4 -25 -12
	Time: :		Time: 6 :30 :
Relinquished By:	Date: 4 -25 -12	Received By:	Date: - -
	Time: 19 :15 :		Time: : :
Relinquished By:	Date: - -	Received By:	Date: 4 -25-12
	Time: : :		Time: 19 :18 :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:

PH Cal=7.01 @ 1:40

4/17/2012 2:50:10 PM

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 04/25/2012
Due Date: 05/02/2012

COC # 504526

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # 12040727

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	1 liter	G	2		4/25/12	12:25	7.65	1		X										A
AP-2	GRAB	12	1 liter	P	1		4/25/12	12:25	7.65	1			X									B
AP-2	GRAB	12	500 ml	P	1		4/25/12	12:25	7.65	4				X								C
AP-2	GRAB	12	500 ml	P	1		4/25/12	12:25	7.65	1					X	X						D
AP-2	GRAB	12	500 ml	P	1		4/25/12	12:25	7.65	3							X					E

Relinquished By:	Date: 4-25-12 Time: 19:30	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By:	Date: 4-25-12 Time: 19:30	Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)
2c

SPECIAL INSTRUCTIONS:
cal pH = 7.00 @ 68.4°F

4/17/2012 2:50:11 PM

Response to 1st RTP
CWLP - 02090

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ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 04/25/2012
Due Date: 05/02/2012

COC # 504526

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER 12040127

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3 GRAB	12	1 liter	G	2		4/25/12	12:05	7.31	1		X										3A
AP-3 GRAB	12	1 liter	P	1		4/25/12	12:05	7.31	1			X									B
AP-3 GRAB	12	500 ml	P	1		4/25/12	12:05	7.31	4				X								C
AP-3 GRAB	12	500 ml	P	1		4/25/12	12:05	7.31	1					X	X						D
AP-3 GRAB	12	500 ml	P	1		4/25/12	12:06	7.31	3							X					E

Relinquished By:	Date: 4-25-12 Time: 19:30	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By:	Date: 4 25 12 Time: 19:30	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:
cal pH = 6.99 @ 68.4°F

4/17/2012 2:50:11 PM
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EMT USE ONLY
EMT WORKORDER # 12040127

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AP-4	GRAB	12	1 liter	G	2		4/25/12	11:25	7.07	1		X										4A
AP-4	GRAB	12	1 liter	P	1		4/25/12	11:25	7.07	1			X									B
AP-4	GRAB	12	500 ml	P	1		4/25/12	11:25	7.07	4				X								C
AP-4	GRAB	12	500 ml	P	1		4/25/12	11:25	7.07	1					X	X						D
AP-4	GRAB	12	500 ml	P	1		4/25/12	11:25	7.07	3							X					E

Relinquished By:	Date: 4-25-12 Time: 19:30	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
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4/17/2012 2:50:12 PM
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EMT USE ONLY

EMT WORKORDER 12040127

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AP-5	GRAB	12	1 liter	G	2		04/25/12	10:40	7.19	1		X										A
AP-5	GRAB	12	1 liter	P	1		04/25/12	10:40	7.19	1			X									B
AP-5	GRAB	12	500 ml	P	1		04/25/12	10:40	7.19	4				X								C
AP-5	GRAB	12	500 ml	P	1		04/25/12	10:40	7.19	1					X	X						D
AP-5	GRAB	12	500 ml	P	1		04/25/12	10:40	7.19	3							X					E

Relinquished By:	Date: 4-25-12 Time: 19:30	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By:	Date: 4-25-12 Time: 19:30	Jar Lot No.

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TEMPERATURE
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SPECIAL INSTRUCTIONS:
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4/17/2012 2:50:12 PM
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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Lab Order:	12040726	**Report Date:**	6/22/2012
Project:	CWLP FGDS Annual Groundwater	**Collection Date:**	4/25/2012 9:30:00 AM
Lab ID:	12040726-06	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Ammonia as N		**Method:**	**SM4500-NH3-B-C**			
Nitrogen, Ammonia (As N)	3.36	0.16	mg/L	5/3/12 13:45	73689	TTT
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	23.	2.	mg/L	4/27/12	R168754	GSB
Nitrogen, Nitrate (As N)	< 0.2	0.2	mg/L	4/27/12	R168754	GSB
Sulfate	10.9	0.5	mg/L	5/1/12	R168937	GSB
BOD, 5 Day, 20°C		**Method:**	**SM5210 B**			
Biochemical Oxygen Demand	< 5.	5.	mg/L	4/26/12 17:00	R168919	YW
Chemical Oxygen Demand		**Method:**	**HACH 8000**			
Chemical Oxygen Demand	7.8	5.	mg/L	5/7/12 12:15	R169180	LS3
Cyanide, Total		**Method:**	**SM4500CN CE BY AQUACHEM / SM4500-CN**			
Cyanide	< 0.01	0.01	mg/L	5/1/12 12:43	73606	CS2
Dissolved Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	23.6	2.	mg/L	4/26/12	R168743	GSB
Nitrogen, Nitrate (As N)	< 0.2	0.2	mg/L	4/26/12	R168743	GSB
Sulfate	< 10.	10.	mg/L	5/6/12	R169134	GSB
Fluoride		**Method:**	**SM4500-F C**			
Fluoride	0.43	0.1	mg/L	5/1/12 13:50	R168944	GSB
Hexane Extractable Materials, (FOG)		**Method:**	**E1664A**			
Oil and Grease (HEM)	< 4.	4.	mg/L	4/27/12 08:20	R168852	TB2
Organic Carbon, Total		**Method:**	**SM5310 B**			
Organic Carbon, Total	13.5	1.	mg/L	5/9/12 11:00	R169369	LS3
pH by Selective Ion Electrode		**Method:**	**SM4500-H**			
pH	7.42		H pH units	4/26/12 17:05	R168722	SHD
Soluble Ammonia as N		**Method:**	**4500-NH3-B-C**			
Nitrogen, Ammonia (As N)	3.3	0.16	mg/L	5/3/12 13:45	73689	TTT
Total Dissolved Solids		**Method:**	**SM2540C**			

Qualifiers:

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R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AW-3
Lab Order: 12040726
Report Date: 6/22/2012
Project: CWLP FGDS Annual Groundwater
Collection Date: 4/25/2012 9:30:00 AM
Lab ID: 12040726-06
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Total Dissolved Solids (Residue, Filterable)	470.	10.		mg/L	4/30/12 23:40	R168916	LS3
ICP Metals, Groundwater Dissolved		**Method:**		**SW6010C / SW3005A**			
Magnesium	30.5	0.139		mg/L	4/30/12 15:56	73513	AG
ICP Metals, Groundwater Total		**Method:**		**SW6010C / SW3015**			
Boron	0.162	0.063	C	mg/L	4/30/12 15:56	73525	AG
Calcium	90.4	0.156		mg/L	4/30/12 15:56	73525	AG
Iron	62.5	0.125		mg/L	4/30/12 15:56	73525	AG
Magnesium	42.7	0.156		mg/L	4/30/12 15:56	73525	AG
Potassium	3.32	0.156		mg/L	4/30/12 15:56	73525	AG
Sodium	60.6	0.156		mg/L	4/30/12 15:56	73525	AG
Mercury in Groundwater, Dissolved		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005		mg/L	4/27/12 11:44	73564	IG
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005		mg/L	4/30/12 13:01	73598	IG
Metals, Dissolved		**Method:**		**SW6020A / SW3005A**			
Arsenic	0.129	0.0111		mg/L	4/27/12 21:32	73513	AG
Boron	0.264	0.0244		mg/L	4/27/12 21:32	73513	AG
Cadmium	< 0.005	0.005		mg/L	4/27/12 21:32	73513	AG
Chromium	< 0.0156	0.0156		mg/L	4/27/12 21:32	73513	AG
Lead	< 0.00444	0.00444		mg/L	4/27/12 21:32	73513	AG
Zinc	< 0.02	0.02		mg/L	4/27/12 21:32	73513	AG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Aluminum	20.1	0.045		mg/L	5/7/12 19:08	73525	AG
Antimony	< 0.0075	0.0075		mg/L	5/7/12 19:08	73525	AG
Arsenic	0.149	0.0125		mg/L	5/7/12 19:08	73525	AG
Barium	0.376	0.0125		mg/L	5/7/12 19:08	73525	AG
Beryllium	< 0.0075	0.0075		mg/L	5/7/12 19:08	73525	AG
Cadmium	< 0.005	0.005		mg/L	5/7/12 19:08	73525	AG
Chromium	0.0443	0.0175		mg/L	5/7/12 19:08	73525	AG
Cobalt	0.0278	0.0175		mg/L	5/7/12 19:08	73525	AG

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Lab Order: 12040726
Report Date: 6/22/2012
Project: CWLP FGDS Annual Groundwater
Collection Date: 4/25/2012 9:30:00 AM
Lab ID: 12040726-06
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	0.0446	0.01		mg/L	5/7/12 19:08	73525	AG
Lead	0.0371	0.005		mg/L	5/7/12 19:08	73525	AG
Manganese	2.02	0.0375		mg/L	5/7/12 19:08	73525	AG
Nickel	0.0549	0.01		mg/L	5/7/12 19:08	73525	AG
Selenium	< 0.0025	0.0025		mg/L	5/7/12 19:08	73525	AG
Silver	< 0.005	0.005		mg/L	5/7/12 19:08	73525	AG
Thallium	< 0.0025	0.0025		mg/L	5/7/12 19:08	73525	AG
Vanadium	0.0464	0.0075		mg/L	5/7/12 19:08	73525	AG
Zinc	0.139	0.02		mg/L	5/7/12 19:08	73525	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	5/2/12	R168962	LBI
Carbofuran	< 2.	2.	C	µg/L	5/2/12	R168962	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0401	0.0401	C	µg/L	5/4/12 19:41	73740	LP
1,2-Dibromoethane	< 0.0562	0.0562	C	µg/L	5/4/12 19:41	73740	LP
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	5/14/12 16:09	73916	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
4,4´-DDT	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Alachlor	< 0.13	0.13		µg/L	5/2/12 18:35	73532	LP
Aldrin	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Atrazine	< 0.17	0.17		µg/L	5/2/12 18:35	73532	LP
Chlordane	< 0.08	0.08		µg/L	5/2/12 18:35	73532	LP
Dieldrin	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Endrin	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
gamma-BHC	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Heptachlor	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Methoxychlor	< 0.01	0.01		µg/L	5/2/12 18:35	73532	LP
Simazine	< 0.17	0.17		µg/L	5/2/12 18:35	73532	LP
Toxaphene	< 0.53	0.53		µg/L	5/2/12 18:35	73532	LP

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12040726
Project: CWLP FGDS Annual Groundwater
Lab ID: 12040726-06

Client Sample ID: AW-3
Report Date: 6/22/2012
Collection Date: 4/25/2012 9:30:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Polychlorinated biphenyls (PCBs)		**Method:**		**SW8082 / SW3510C**			
Aroclor 1016	< 0.08	0.08		µg/L	5/1/12	73533	NCH
Aroclor 1221	< 0.17	0.17		µg/L	5/1/12	73533	NCH
Aroclor 1232	< 0.08	0.08		µg/L	5/1/12	73533	NCH
Aroclor 1242	< 0.08	0.08		µg/L	5/1/12	73533	NCH
Aroclor 1248	< 0.08	0.08		µg/L	5/1/12	73533	NCH
Aroclor 1254	< 0.08	0.08		µg/L	5/1/12	73533	NCH
Aroclor 1260	< 0.08	0.08		µg/L	5/1/12	73533	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	5/1/12 01:21	73558	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
Bis(chloromethyl)ether	< 14.	14.	C	µg/L	5/1/12 01:21	73558	RYL
Butyl benzyl phthalate	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
Di-n-butyl phthalate	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
Diethyl phthalate	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
Dimethyl phthalate	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
Isophorone	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
m,p-Cresol	< 1.33	1.33		µg/L	5/1/12 01:21	73558	RYL
Naphthalene	< 0.13	0.13		µg/L	5/1/12 01:21	73558	RYL
Parathion	< 3.33	3.33	C	µg/L	5/2/12 01:10	73558	RYL
Phenol	< 0.13	0.13		µg/L	5/1/12 01:21	73558	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	5/1/12	73535	DLO
2,4-D	< 0.23	0.23		µg/L	5/1/12	73535	DLO
Dinoseb	< 0.22	0.22		µg/L	5/1/12	73535	DLO
Pentachlorophenol	< 0.27	0.27	C	µg/L	5/1/12	73535	DLO
Picloram	< 0.22	0.22	C	µg/L	5/1/12	73535	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,1,2,2-Tetrachloroethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,1,2-Trichloroethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,1-Dichloroethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL

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Project: CWLP FGDS Annual Groundwater
Collection Date: 4/25/2012 9:30:00 AM
Lab ID: 12040726-06
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
1,1-Dichloroethene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2,3-Trichlorobenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2,3-Trichloropropane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2,4-Trimethylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2-Dibromo-3-chloropropane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2-Dibromoethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2-Dichlorobenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2-Dichloroethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,2-Dichloropropane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,3,5-Trimethylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,3-Dichlorobenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,3-Dichloropropane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,4-Dichlorobenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
2,2-Dichloropropane	< 2.	2.	C	µg/L	4/27/12 08:22	73553	JL
2-Butanone	< 20.	20.		µg/L	4/27/12 08:22	73553	JL
2-Chlorotoluene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
2-Hexanone	< 20.	20.		µg/L	4/27/12 08:22	73553	JL
4-Chlorotoluene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
4-Methyl-2-pentanone	< 20.	20.		µg/L	4/27/12 08:22	73553	JL
Acetone	< 40.	40.		µg/L	4/27/12 08:22	73553	JL
Acrolein	< 20.	20.		µg/L	4/27/12 08:22	73553	JL
Acrylonitrile	< 20.	20.		µg/L	4/27/12 08:22	73553	JL
Benzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Bromobenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Bromochloromethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Bromodichloromethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Bromoform	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Bromomethane	< 6.21	6.21		µg/L	4/27/12 08:22	73553	JL
Carbon disulfide	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Carbon tetrachloride	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Chlorobenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Chloroethane	< 20.	20.		µg/L	4/27/12 08:22	73553	JL
Chloroform	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Chloromethane	< 3.27	3.27		µg/L	4/27/12 08:22	73553	JL
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	4/27/12 08:22	73553	JL

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12040726
Project: CWLP FGDS Annual Groundwater
Lab ID: 12040726-06

Client Sample ID: AW-3
Report Date: 6/22/2012
Collection Date: 4/25/2012 9:30:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
cis-1,3-Dichloropropene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Dibromochloromethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Dibromomethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Dichlorodifluoromethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Ethylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Hexachlorobutadiene	< 2.	2.	C	µg/L	4/27/12 08:22	73553	JL
Iodomethane	< 3.04	3.04	C	µg/L	4/27/12 08:22	73553	JL
Isopropyl Toluene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Isopropylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
m,p-Xylene	< 4.	4.		µg/L	4/27/12 08:22	73553	JL
Methylene chloride	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
n-Butylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
n-Propylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
o-Xylene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
sec-Butylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Styrene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
tert-Butylbenzene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Tetrachloroethene	< 10.	10.		µg/L	4/27/12 08:22	73553	JL
Tetrahydrofuran	< 20.	20.	C	µg/L	4/27/12 08:22	73553	JL
Toluene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
trans-1,2-Dichloroethene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
trans-1,3-Dichloropropene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
trans-1,4-Dichloro-2-butene	< 8.23	8.23	C	µg/L	4/27/12 08:22	73553	JL
Trichloroethene	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Trichlorofluoromethane	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Vinyl acetate	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
Vinyl chloride	< 2.	2.		µg/L	4/27/12 08:22	73553	JL
1,3-Dichloropropene, Total	< 4.	4.		µg/L	4/27/12 08:22	73553	JL
Xylenes, Total	< 6.	6.		µg/L	4/27/12 08:22	73553	JL

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Lab Order:	12050822	**Report Date:**	6/22/2012
Project:	CWLP FGDS Annual Groundwater	**Collection Date:**	5/24/2012 9:40:00 AM
Lab ID:	12050822-11	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/31/12 16:04	74282	RYL

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

October 10, 2012

RE CWLP AP Wells

Lab Orders:
12080743 12080764

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Orders listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 21 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

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CLIENT: City, Water, Light & Power
Date: *10/10/2012*

Project: CWLP AP Wells

CASE NARRATIVE

Lab Orders: 12080743 12080764

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

Response to 1st RTP
CWLP - 02102

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CLIENT: City, Water, Light & Power
Project: CWLP AP Wells
Lab Orders: 12080743 12080764

Date: *10/10/2012*

CASE NARRATIVE

Analytical Comments for METHOD 6020_GRNDWTR_LIST, LCSLLMS-76306: The low level LCS recoveris for As, B,Cr, Fe, and Se were outside of the lab control limits (where applicable).

Analytical Comments for METHOD 6020_GRNDWTR_LIST, LCSLOES-76318: The low level LCS recoveris for As, Ni, Se, and Ag were outside of the lab control limits (where applicable).

Analytical Comments for METHOD 6020_GRNDWTR_LIST, LCSLLMS-76306: The low level LCS recoveris for As, B,Cr, Fe, and Se were outside of the lab control limits (where applicable).

Analytical Comments for METHOD 6020_GRNDWTR_LIST, MB-76318: The Ni CCB was just below the lab control limits.

Analytical Comments for METHOD 6020_GRNDWTR_LIST, LCSLOES-76318: The low level LCS recoveris for As, Ni, Se, and Ag were outside of the lab control limits (where applicable).

Analytical Comments for METHOD RADIATION, 12080764-01A, 02A, 03A: The Radium-226/228 analysis by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

Response to 1st RTP
CWLP - 02103

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Lab Order:	12080743	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/23/2012 11:05:00 AM
Lab ID:	12080743-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	39.3	2.	mg/L	8/24/12	R174166	GSB
Fluoride	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Nitrogen, Nitrate (As N)	0.65	0.5	mg/L	8/24/12	R174166	GSB
Sulfate	469.	50.	mg/L	8/28/12	R174260	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	8/29/12 15:37	76375	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	788.	10.	mg/L	8/28/12 11:30	R174349	SW
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	8/30/12 11:36	76413	ML3
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	0.0073	0.006	mg/L	8/29/12 02:19	76306	AG
Arsenic	0.0141	0.0125	mg/L	8/29/12 02:19	76306	AG
Barium	0.255	0.0125	mg/L	8/29/12 02:19	76306	AG
Beryllium	< 0.004	0.004	mg/L	8/29/12 02:19	76306	AG
Boron	15.2	0.275	mg/L	8/29/12 12:19	76306	AG
Cadmium	< 0.0025	0.0025	mg/L	8/29/12 02:19	76306	AG
Chromium	< 0.0175	0.0175	mg/L	8/29/12 02:19	76306	AG
Cobalt	< 0.0175	0.0175	mg/L	8/29/12 02:19	76306	AG
Copper	< 0.01	0.01	mg/L	8/29/12 02:19	76306	AG
Iron	9.22	0.14	mg/L	8/29/12 02:19	76306	AG
Lead	< 0.005	0.005	mg/L	8/29/12 02:19	76306	AG
Manganese	0.564	0.0375	mg/L	8/29/12 02:19	76306	AG
Nickel	< 0.01	0.01	mg/L	8/29/12 02:19	76306	AG
Selenium	< 0.0025	0.0025	mg/L	8/29/12 02:19	76306	AG
Silver	< 0.005	0.005	mg/L	8/29/12 02:19	76306	AG
Thallium	< 0.002	0.002	mg/L	8/29/12 02:19	76306	AG
Zinc	< 0.025	0.025	mg/L	8/29/12 02:19	76306	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Lab Order:	12080743	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/23/2012 11:05:00 AM
Lab ID:	12080743-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radium-226	1.2	0.9	pCi/L	9/10/12	R175958	OUT
Radium-228	ND	0.7	pCi/L	9/10/12	R175958	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12080743
Project: CWLP AP Wells
Lab ID: 12080743-02

Client Sample ID: AW-3
Report Date: 10/10/2012
Collection Date: 8/23/2012 10:25:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	23.7	2.	mg/L	8/24/12	R174166	GSB
Fluoride	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Sulfate	5.99	5.	mg/L	8/24/12	R174166	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	8/29/12 15:37	76375	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	422.	10.	mg/L	8/28/12 11:30	R174349	SW
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	8/30/12 11:36	76413	ML3
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	0.0067	0.006	mg/L	8/29/12 02:25	76306	AG
Arsenic	0.131	0.0125	mg/L	8/29/12 02:25	76306	AG
Barium	0.202	0.0125	mg/L	8/29/12 02:25	76306	AG
Beryllium	< 0.004	0.004	mg/L	8/29/12 02:25	76306	AG
Boron	0.689	0.275	mg/L	8/29/12 12:19	76306	AG
Cadmium	< 0.0025	0.0025	mg/L	8/29/12 02:25	76306	AG
Chromium	< 0.0175	0.0175	mg/L	8/29/12 02:25	76306	AG
Cobalt	< 0.0175	0.0175	mg/L	8/29/12 02:25	76306	AG
Copper	< 0.01	0.01	mg/L	8/29/12 02:25	76306	AG
Iron	11.5	0.14	mg/L	8/29/12 02:25	76306	AG
Lead	< 0.005	0.005	mg/L	8/29/12 02:25	76306	AG
Manganese	0.329	0.0375	mg/L	8/29/12 02:25	76306	AG
Nickel	< 0.01	0.01	mg/L	8/29/12 02:25	76306	AG
Selenium	< 0.0025	0.0025	mg/L	8/29/12 02:25	76306	AG
Silver	< 0.005	0.005	mg/L	8/29/12 02:25	76306	AG
Thallium	< 0.002	0.002	mg/L	8/29/12 02:25	76306	AG
Zinc	< 0.025	0.025	mg/L	8/29/12 02:25	76306	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			

Qualifiers:

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Lab Order:	12080743	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/23/2012 10:25:00 AM
Lab ID:	12080743-02	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radium-226	ND	0.89	pCi/L	9/10/12	R175958	OUT
Radium-228	ND	0.6	pCi/L	9/10/12	R175958	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
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R - RPD outside accepted recovery limits
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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12080743
Project: CWLP AP Wells
Lab ID: 12080743-03

Client Sample ID: AP-5
Report Date: 10/10/2012
Collection Date: 8/23/2012 10:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	3.32	2.	mg/L	8/24/12	R174166	GSB
Fluoride	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Sulfate	76.8	5.	mg/L	8/24/12	R174166	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	8/29/12 15:37	76375	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	316.	10.	mg/L	8/28/12 11:30	R174349	SW
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	0.0007	0.0005	mg/L	9/4/12 00:22	76492	ML3
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	0.0063	0.006	mg/L	8/29/12 02:30	76306	AG
Arsenic	0.102	0.0125	mg/L	8/29/12 02:30	76306	AG
Barium	2.76	0.0125	mg/L	8/29/12 02:30	76306	AG
Beryllium	0.0092	0.004	mg/L	8/29/12 02:30	76306	AG
Boron	0.782	0.687	mg/L	8/29/12 12:19	76306	AG
Cadmium	0.00575	0.0025	mg/L	8/29/12 02:30	76306	AG
Chromium	0.449	0.0175	mg/L	8/29/12 02:30	76306	AG
Cobalt	0.297	0.0175	mg/L	8/29/12 02:30	76306	AG
Copper	0.401	0.01	mg/L	8/29/12 02:30	76306	AG
Iron	430.	3.5	mg/L	8/29/12 12:19	76306	AG
Lead	0.312	0.005	mg/L	8/29/12 02:30	76306	AG
Manganese	12.3	0.0375	mg/L	8/29/12 02:30	76306	AG
Nickel	0.7	0.01	mg/L	8/29/12 02:30	76306	AG
Selenium	0.00585	0.0025	mg/L	8/29/12 02:30	76306	AG
Silver	< 0.005	0.005	mg/L	8/29/12 02:30	76306	AG
Thallium	0.00302	0.002	mg/L	8/29/12 02:30	76306	AG
Zinc	1.35	0.025	mg/L	8/29/12 02:30	76306	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12080743	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/23/2012 10:55:00 AM
Lab ID:	12080743-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Radium-226	7.1	0.2	pCi/L	9/10/12	R175958	OUT
Radium-228	5.1	0.7	pCi/L	9/10/12	R175958	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	12080764	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/24/2012 12:35:00 PM
Lab ID:	12080764-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.		pH units	8/24/12 12:35	R174101	EP1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	19.9	2.	mg/L	8/24/12	R174166	GSB
Fluoride	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Sulfate	250.	5.	mg/L	8/24/12	R174166	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	8/29/12 15:37	76375	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	836.	10.	mg/L	8/28/12 11:30	R174349	SW
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	8/30/12 11:36	76413	ML3
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	8/28/12 23:08	76318	AG
Arsenic	0.0331	0.0125	mg/L	8/28/12 23:08	76318	AG
Barium	0.731	0.0125	mg/L	8/28/12 23:08	76318	AG
Beryllium	< 0.004	0.004	mg/L	8/28/12 23:08	76318	AG
Boron	6.88	0.275	mg/L	8/29/12 12:19	76318	AG
Cadmium	< 0.005	0.005	mg/L	8/28/12 23:08	76318	AG
Chromium	0.111	0.0175	mg/L	8/28/12 23:08	76318	AG
Cobalt	0.0528	0.0175	mg/L	8/28/12 23:08	76318	AG
Copper	0.0942	0.01	mg/L	8/28/12 23:08	76318	AG
Iron	90.8	1.4	mg/L	8/29/12 12:19	76318	AG
Lead	0.0599	0.005	mg/L	8/28/12 23:08	76318	AG
Manganese	22.5	0.0375	mg/L	8/28/12 23:08	76318	AG
Nickel	0.104	0.01	mg/L	8/28/12 23:08	76318	AG
Selenium	< 0.0025	0.0025	mg/L	8/28/12 23:08	76318	AG
Silver	< 0.005	0.005	mg/L	8/28/12 23:08	76318	AG
Thallium	< 0.002	0.002	mg/L	8/28/12 23:08	76318	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	12080764	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/24/2012 12:35:00 PM
Lab ID:	12080764-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Zinc	0.281	0.025	mg/L	8/28/12 23:08	76318	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.6	0.8	pCi/L	9/10/12	R176218	OUT
Radium-228	1.3	0.7	pCi/L	9/10/12	R176218	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12080764
Project: CWLP AP Wells
Lab ID: 12080764-02

Client Sample ID: AP-3
Report Date: 10/10/2012
Collection Date: 8/24/2012 12:20:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.88		pH units	8/24/12 12:20	R174101	EP1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	47.7	2.	mg/L	8/24/12	R174166	GSB
Fluoride	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Sulfate	315.	50.	mg/L	8/28/12	R174260	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.2	0.2	mg/L	8/30/12 13:23	76403	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1000.	10.	mg/L	8/28/12 11:30	R174349	SW
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	8/30/12 11:36	76413	ML3
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	8/28/12 23:13	76318	AG
Arsenic	0.0254	0.0125	mg/L	8/28/12 23:13	76318	AG
Barium	0.16	0.0125	mg/L	8/28/12 23:13	76318	AG
Beryllium	< 0.004	0.004	mg/L	8/28/12 23:13	76318	AG
Boron	20.9	0.275	mg/L	8/29/12 12:19	76318	AG
Cadmium	< 0.005	0.005	mg/L	8/28/12 23:13	76318	AG
Chromium	< 0.0175	0.0175	mg/L	8/28/12 23:13	76318	AG
Cobalt	< 0.0175	0.0175	mg/L	8/28/12 23:13	76318	AG
Copper	0.0274	0.01	mg/L	8/28/12 23:13	76318	AG
Iron	19.2	0.14	mg/L	8/28/12 23:13	76318	AG
Lead	0.0118	0.005	mg/L	8/28/12 23:13	76318	AG
Manganese	8.15	0.0375	mg/L	8/28/12 23:13	76318	AG
Nickel	0.0156	0.01	mg/L	8/28/12 23:13	76318	AG
Selenium	< 0.0025	0.0025	mg/L	8/28/12 23:13	76318	AG
Silver	< 0.005	0.005	mg/L	8/28/12 23:13	76318	AG
Thallium	< 0.002	0.002	mg/L	8/28/12 23:13	76318	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Lab Order:	12080764	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/24/2012 12:20:00 PM
Lab ID:	12080764-02	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Zinc	0.0326	0.025	mg/L	8/28/12 23:13	76318	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.3	1.	pCi/L	9/10/12	R176218	OUT
Radium-228	ND	0.73	pCi/L	9/10/12	R176218	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	12080764	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/24/2012 12:10:00 PM
Lab ID:	12080764-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.63		pH units	8/24/12 12:10	R174101	EP1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	11.	2.	mg/L	8/24/12	R174166	GSB
Fluoride	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Nitrogen, Nitrate (As N)	< 0.5	0.5	mg/L	8/24/12	R174166	GSB
Sulfate	< 5.	5.	mg/L	8/24/12	R174166	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.2	0.2	mg/L	8/30/12 13:23	76403	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	448.	10.	mg/L	8/28/12 11:30	R174349	SW
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	8/30/12 11:36	76413	ML3
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	8/28/12 23:19	76318	AG
Arsenic	0.0294	0.0125	mg/L	8/28/12 23:19	76318	AG
Barium	0.366	0.0125	mg/L	8/28/12 23:19	76318	AG
Beryllium	< 0.004	0.004	mg/L	8/28/12 23:19	76318	AG
Boron	0.787	0.275	mg/L	8/29/12 12:19	76318	AG
Cadmium	< 0.005	0.005	mg/L	8/28/12 23:19	76318	AG
Chromium	< 0.0175	0.0175	mg/L	8/28/12 23:19	76318	AG
Cobalt	< 0.0175	0.0175	mg/L	8/28/12 23:19	76318	AG
Copper	< 0.01	0.01	mg/L	8/28/12 23:19	76318	AG
Iron	10.8	0.14	mg/L	8/28/12 23:19	76318	AG
Lead	< 0.005	0.005	mg/L	8/28/12 23:19	76318	AG
Manganese	0.162	0.0375	mg/L	8/28/12 23:19	76318	AG
Nickel	< 0.01	0.01	mg/L	8/28/12 23:19	76318	AG
Selenium	0.00497	0.0025	mg/L	8/28/12 23:19	76318	AG
Silver	< 0.005	0.005	mg/L	8/28/12 23:19	76318	AG
Thallium	< 0.002	0.002	mg/L	8/28/12 23:19	76318	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	12080764	**Report Date:**	10/10/2012
Project:	CWLP AP Wells	**Collection Date:**	8/24/2012 12:10:00 PM
Lab ID:	12080764-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Zinc	< 0.025	0.025	mg/L	8/28/12 23:19	76318	AG
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.97	pCi/L	9/10/12	R176218	OUT
Radium-228	ND	0.71	pCi/L	9/10/12	R176218	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 08/14/2012
Due Date: 08/28/2012

COC # 504719

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER
#208743

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Preservation pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1 GRAB	12	1 liter	G	2	SP	8/23/12	1105	6.20	1		X										A
AP-1 GRAB	12	1 liter	P	1	SP	8/23/12	1105	6.20	1			X									B
AP-1 GRAB	12	500 ml	P	1	SP	8/23/12	1105	6.20	4				X								C
AP-1 GRAB	12	500 ml	P	1	SP	8/23/12	1105	6.20	1					X	X						D
AP-1 GRAB	12	500 ml	P	1	SP	8/23/12	1105	6.20	3							X					E

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 8-23-12	Received By:	Date: 8-23-12
	Time: 11:30		Time: 11:30
Relinquished By:	Date: 8-23-12	Received By:	Date: 8/23/12
	Time: 15:30		Time: 15:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)
4c

SPECIAL INSTRUCTIONS:

pH: 7.00 = 7.00 @ 0935

8/14/2012 1:49:23 PM
Page 1

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Chain of Custody Record

Scheduled Sampling Date: 08/14/2012
Due Date: 08/28/2012

COC # 504719

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY

EMT WORKORDER # 12080743

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	1 liter	G	2	SJ	8/23/12	1025	6.29	1		X										A
AW-3 GRAB	12	1 liter	P	1	SJ	8/23/12	1025	6.29	1			X									B
AW-3 GRAB	12	500 ml	P	1	SJ	8/23/12	1025	6.29	4				X								C
AW-3 GRAB	12	500 ml	P	1	SJ	8/23/12	1025	6.29	1					X	X						D
AW-3 GRAB	12	500 ml	P	1	SJ	8/23/12	1025	6.29	3							X					E

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 8-23-12	Received By:	Date: 8-23-12
	Time: 11:30		Time: 11:30
Relinquished By:	Date: 8-23-12	Received By:	Date: 8/23/12
	Time: 5:30		Time: 1730

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

4C

SPECIAL INSTRUCTIONS:
pH: 7.00 = 7.00 @ 0935

8/14/2012 1:49:25 PM
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Chain of Custody Record

Scheduled Sampling Date: 08/14/2012
Due Date: 08/28/2012

COC # 504719

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # 12080143

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Preservation pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	1 liter	G	2		8/23/12	10:55	587	1		X										
AP-5	GRAB	12	1 liter	P	1		8/23/12	10:55	7.27	1			X									
AP-5	GRAB	12	500 ml	P	1		8/23/12	10:55	7.27	4				X								
AP-5	GRAB	12	500 ml	P	1		8/23/12	10:55	7.27	1					X	X						
AP-5	GRAB	12	500 ml	P	1		8/23/12	10:55	7.27	3							X					

Relinquished By:	Date: 8-23-12 Time: 15:30	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By:	Date: 8/31/12 Time: 9:30	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

4

SPECIAL INSTRUCTIONS:

pH cal 7.00 = 7.00 @ 73.1 °F
Time = 09:30

8/14/2012 1:49:24 PM
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Chain of Custody Record

Scheduled Sampling Date: 08/14/2012
Due Date: 08/28/2012

COC # 504719

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY

EMT WORKORDER # 12080764

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2 GRAB	12	1 liter	G	2	KP	8/14/12	1235	7.00	1		X										01A
AP-2 GRAB	12	1 liter	P	1	KP	8/14/12	1235	7.00	1			X									01B
AP-2 GRAB	12	500 ml	P	1	KP	8/14/12	1235	7.00	4				X								01C
AP-2 GRAB	12	500 ml	P	1	KP	8/14/12	1235	7.00	1					X	X						01D
AP-2 GRAB	12	500 ml	P	1	KP	8/14/12	1235	7.00	3							X					01E

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 8-23-12	Received By:	Date: 8-23-12
	Time: 17:30		Time: 17:30
Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

X SAMPLE RECEIVED ON ICE
X TEMPERATURE 3°C
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH: 7.00 = 7.00 @ 0935

8/14/2012 1:49:23 PM
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Chain of Custody Record

Scheduled Sampling Date: 08/14/2012
Due Date: 08/28/2012

COC # 504719

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # 12080764

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	1 liter	G	2	DD	8-23-12	12:20	6.88	1		X										~~01A~~ 02A
AP-3	GRAB	12	1 liter	P	1	DD	8-23-12	12:20	6.88	1			X									~~01B~~ 02B
AP-3	GRAB	12	500 ml	P	1	DD	8-23-12	12:20	6.88	4				X								~~01C~~ 02C
AP-3	GRAB	12	500 ml	P	1	DD	8-23-12	12:20	6.88	1					X	X						~~01D~~ 02D
AP-3	GRAB	12	500 ml	P	1	DD	8-23-12	12:20	6.88	3							X					~~01E~~ 02E
																						MT 8/24

Relinquished By:	Date: 8-23-12 Time: 13:00	Received By:	Date: 8-23-12 Time: 13:00	EMT USE ONLY
Relinquished By:	Date: 8-23-12 Time: 17:30	Received By:	Date: 8-23-12 Time: 17:30	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP AP Wells
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	Jar Lot No.

X SAMPLE RECEIVED ON ICE
X TEMPERATURE 3°C
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS: pH cal @ 9:30
7.00 7.00

8/14/2012 1:49:23 PM
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Chain of Custody Record

Scheduled Sampling Date: 08/14/2012
Due Date: 08/28/2012

COC # 504719

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP AP Wells

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 14. Groundwater(Filter) 15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Radiation Testing, Subcontracted
2. Anions by Ion Chromatography
3. Cyanide, Total
4. Solids, Total Dissolved (TDS)
5. pH, Field tested
6. Total RCRA Metals on a Liquid Sample

EMT USE ONLY
EMT WORKORDER # 12080764

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	1 liter	G	2	SP	8/23/12	1210	7.63	1		X										~~01A~~ 03A
AP-4	GRAB	12	1 liter	P	1	SP	8/23/12	1210	7.63	1			X									~~01B~~ 03B
AP-4	GRAB	12	500 ml	P	1	SP	8/23/12	1210	7.63	4				X								~~01~~ 03C
AP-4	GRAB	12	500 ml	P	1	SP	8/23/12	1210	7.63	1					X	X						03D
AP-4	GRAB	12	500 ml	P	1	SP	8/23/12	1210	7.63	3							X					03E
~~AP~~ AP-1	GRAB	12	500ml	P	1	SP	8/23/12	1105	6.20	1					X	X						04A

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	- -	: :		- -	: :
Relinquished By:	8-23-12	17:50	Received By:	8-23-12	17:50
Relinquished By:	- -	: :	Received By:	- -	: :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP AP Wells
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE 3 °C
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH: 7.00 = 7.00 @ 0935

8/14/2012 1:49:24 PM
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Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

January 31, 2013

RE CWLP List G20

Lab Orders:
12110767

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 39 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

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CLIENT: City, Water, Light & Power
Date: *1/31/2013*

Project: CWLP List G20

CASE NARRATIVE

Lab Order: 12110767

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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CLIENT: City, Water, Light & Power
Project: CWLP List G20
Lab Order: 12110767

Date: *1/31/2013*

CASE NARRATIVE

Analytical Comments for METHOD 8270_WNEW, 12110767-01A, 03A, 04A, 05A, 06A: Acid surrogate recovery was below the limit.

For the Radium analysis on splits 03A and 06A, the sample was decanted to remove the sediment so the analysis could be performed.

Analytical Comments for METHOD RADIATION, 12110767-01A, 02A, 04A, 05A: The Radium-226/228 analysis by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

Analytical Comments for METHOD RADIATION, 12110767-03A, 06A: The Radium-226/228 analysis by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001. The sample was decanted to remove sediment prior to analysis.

Response to 1st RTP
CWLP - 02124

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-01

Client Sample ID: AW-3
Report Date: 1/31/2013
Collection Date: 11/28/2012 8:25:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.05		pH units	11/28/12 08:25	R179410	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	23.5	0.2	mg/L	11/30/12	R178588	GSB
Fluoride	< 0.5	0.5	mg/L	11/30/12	R178588	GSB
Nitrogen, Nitrate (As N)	0.22	0.05	mg/L	11/30/12	R178588	GSB
Sulfate	< 5.	5.	mg/L	11/30/12	R178588	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	12/4/12 12:34	78543	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	570.	10.	mg/L	11/30/12 13:50	R178673	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	12/3/12 13:08	78542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	12/12/12 13:20	78529	AG
Arsenic	0.121	0.005	mg/L	12/12/12 13:20	78529	AG
Barium	< 2.	2.	mg/L	12/12/12 13:20	78529	AG
Beryllium	< 0.004	0.004	mg/L	12/12/12 13:20	78529	AG
Boron	< 2.	2.	mg/L	12/12/12 13:20	78529	AG
Cadmium	< 0.0005	0.0005	mg/L	12/12/12 13:20	78529	AG
Chromium	< 0.1	0.1	mg/L	12/12/12 13:20	78529	AG
Cobalt	< 1.	1.	mg/L	12/12/12 13:20	78529	AG
Copper	< 0.65	0.65	mg/L	12/12/12 13:20	78529	AG
Iron	12.3	5.	mg/L	12/12/12 13:20	78529	AG
Lead	< 0.0075	0.0075	mg/L	12/12/12 13:20	78529	AG
Manganese	0.334	0.15	mg/L	12/12/12 13:20	78529	AG
Nickel	< 0.1	0.1	mg/L	12/12/12 13:20	78529	AG
Selenium	< 0.05	0.05	mg/L	12/12/12 13:20	78529	AG
Silver	< 0.05	0.05	mg/L	12/12/12 13:20	78529	AG
Thallium	< 0.002	0.002	mg/L	12/12/12 13:20	78529	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-01

Client Sample ID: AW-3
Report Date: 1/31/2013
Collection Date: 11/28/2012 8:25:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	12/12/12 13:20	78529	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
Carbofuran	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	12/11/12 10:27	78746	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	12/11/12 10:27	78746	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/10/12 06:14	78562	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	12/12/12 09:43	78751	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	12/3/12 19:15	78503	LP
Atrazine	< 0.17	0.17		µg/L	12/3/12 19:15	78503	LP
Chlordane	< 0.08	0.08		µg/L	12/3/12 19:15	78503	LP
Endrin	< 0.01	0.01		µg/L	12/3/12 19:15	78503	LP
Heptachlor	< 0.01	0.01		µg/L	12/3/12 19:15	78503	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	12/3/12 19:15	78503	LP
Methoxychlor	< 0.01	0.01		µg/L	12/3/12 19:15	78503	LP
Simazine	< 0.17	0.17		µg/L	12/3/12 19:15	78503	LP
Toxaphene	< 0.53	0.53		µg/L	12/3/12 19:15	78503	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1221	< 0.17	0.17		µg/L	12/4/12	78504	NCH
Aroclor 1232	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1242	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1248	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1254	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1260	< 0.08	0.08		µg/L	12/4/12	78504	NCH
PCB, Total	< 0.66	0.66		µg/L	12/4/12	78504	NCH

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-01

Client Sample ID: AW-3
Report Date: 1/31/2013
Collection Date: 11/28/2012 8:25:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	12/6/12 04:12	78450	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/6/12 04:12	78450	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	12/6/12 04:12	78450	RYL
Phenol	< 1.33	1.33		µg/L	12/6/12 04:12	78450	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	12/3/12	78467	DLO
2,4-D	< 0.23	0.23		µg/L	12/3/12	78467	DLO
Dinoseb	< 0.22	0.22		µg/L	12/3/12	78467	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	12/3/12	78467	DLO
Picloram	< 0.22	0.22	C	µg/L	12/3/12	78467	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,1,2-Trichloroethane	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,1-Dichloroethene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,2,4-Trichlorobenzene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,2-Dichlorobenzene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,2-Dichloroethane	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,2-Dichloropropane	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
1,4-Dichlorobenzene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Benzene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Carbon tetrachloride	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Chlorobenzene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	12/3/12 20:45	78559	XN
Ethylbenzene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Methyl tert-butyl ether	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Methylene chloride	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Styrene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Tetrachloroethene	< 10.	10.		µg/L	12/3/12 20:45	78559	XN
Toluene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
trans-1,2-Dichloroethene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Trichloroethene	< 2.	2.		µg/L	12/3/12 20:45	78559	XN
Vinyl chloride	< 2.	2.		µg/L	12/3/12 20:45	78559	XN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 8:25:00 AM
Lab ID:	12110767-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 6.	6.	µg/L	12/3/12 20:45	78559	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.48	0.3	pCi/L	1/11/13	R180319	OUT
Radium-228	1.3	0.7	pCi/L	1/11/13	R180319	OUT

Qualifiers:

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E - Estimated
H - Holding Time Exceeded
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R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-02

Client Sample ID: AP-1
Report Date: 1/31/2013
Collection Date: 11/28/2012 10:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.23		pH units	11/28/12 10:45	R179410	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	40.3	0.2	mg/L	11/30/12	R178588	GSB
Fluoride	< 0.5	0.5	mg/L	11/30/12	R178588	GSB
Nitrogen, Nitrate (As N)	0.22	0.05	mg/L	11/30/12	R178588	GSB
Sulfate	488.	50.	mg/L	12/3/12	R178685	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	12/4/12 12:34	78543	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1160.	10.	mg/L	11/30/12 13:50	R178673	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	12/3/12 13:08	78542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	12/12/12 13:26	78529	AG
Arsenic	0.00572	0.005	mg/L	12/12/12 13:26	78529	AG
Barium	< 2.	2.	mg/L	12/12/12 13:26	78529	AG
Beryllium	< 0.004	0.004	mg/L	12/12/12 13:26	78529	AG
Boron	4.3	2.	mg/L	12/12/12 13:26	78529	AG
Cadmium	< 0.005	0.005	mg/L	12/12/12 13:26	78529	AG
Chromium	< 0.1	0.1	mg/L	12/12/12 13:26	78529	AG
Cobalt	< 1.	1.	mg/L	12/12/12 13:26	78529	AG
Copper	< 0.65	0.65	mg/L	12/12/12 13:26	78529	AG
Iron	23.4	5.	mg/L	12/12/12 13:26	78529	AG
Lead	< 0.0075	0.0075	mg/L	12/12/12 13:26	78529	AG
Manganese	0.744	0.15	mg/L	12/12/12 13:26	78529	AG
Nickel	< 0.1	0.1	mg/L	12/12/12 13:26	78529	AG
Selenium	< 0.05	0.05	mg/L	12/12/12 13:26	78529	AG
Silver	< 0.05	0.05	mg/L	12/12/12 13:26	78529	AG
Thallium	< 0.002	0.002	mg/L	12/12/12 13:26	78529	AG

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-02

Client Sample ID: AP-1
Report Date: 1/31/2013
Collection Date: 11/28/2012 10:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	12/12/12 13:26	78529	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
Carbofuran	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0401	0.0401	C	µg/L	12/11/12 11:30	78746	LP
1,2-Dibromoethane	< 0.0562	0.0562	C	µg/L	12/11/12 11:30	78746	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/10/12 06:58	78562	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	12/12/12 11:10	78751	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	12/3/12 20:02	78503	LP
Atrazine	< 0.17	0.17		µg/L	12/3/12 20:02	78503	LP
Chlordane	< 0.08	0.08		µg/L	12/3/12 20:02	78503	LP
Endrin	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Heptachlor	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Methoxychlor	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Simazine	< 0.17	0.17		µg/L	12/3/12 20:02	78503	LP
Toxaphene	< 0.53	0.53		µg/L	12/3/12 20:02	78503	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1221	< 0.17	0.17		µg/L	12/4/12	78504	NCH
Aroclor 1232	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1242	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1248	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1254	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1260	< 0.08	0.08		µg/L	12/4/12	78504	NCH
PCB, Total	< 0.66	0.66		µg/L	12/4/12	78504	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-02

Client Sample ID: AP-1
Report Date: 1/31/2013
Collection Date: 11/28/2012 10:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	12/6/12 04:56	78450	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/6/12 04:56	78450	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	12/6/12 04:56	78450	RYL
Phenol	< 1.33	1.33		µg/L	12/6/12 04:56	78450	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	12/3/12	78467	DLO
2,4-D	< 0.23	0.23		µg/L	12/3/12	78467	DLO
Dinoseb	< 0.22	0.22		µg/L	12/3/12	78467	DLO
Pentachlorophenol	< 0.27	0.27	C	µg/L	12/3/12	78467	DLO
Picloram	< 0.22	0.22	C	µg/L	12/3/12	78467	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	12/6/12 16:18	78646	JL
1,1,2-Trichloroethane	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
1,1-Dichloroethene	< 2.	2.		µg/L	12/6/12 16:18	78646	JL
1,2,4-Trichlorobenzene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
1,2-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
1,2-Dichloroethane	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
1,2-Dichloropropane	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
1,4-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Benzene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Carbon tetrachloride	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Chlorobenzene	< 2.	2.		µg/L	12/6/12 16:18	78646	JL
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	12/4/12 02:14	78559	XN
Ethylbenzene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Methyl tert-butyl ether	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Methylene chloride	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Styrene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Tetrachloroethene	< 10.	10.		µg/L	12/6/12 16:18	78646	JL
Toluene	< 2.	2.		µg/L	12/6/12 16:18	78646	JL
trans-1,2-Dichloroethene	< 2.	2.		µg/L	12/4/12 02:14	78559	XN
Trichloroethene	< 2.	2.		µg/L	12/6/12 16:18	78646	JL
Vinyl chloride	< 2.	2.		µg/L	12/4/12 02:14	78559	XN

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 10:45:00 AM
Lab ID:	12110767-02	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 6.	6.	µg/L	12/4/12 02:14	78559	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.1	0.2	pCi/L	1/11/13	R180319	OUT
Radium-228	1.4	0.8	pCi/L	1/11/13	R180319	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-03

Client Sample ID: AP-2
Report Date: 1/31/2013
Collection Date: 11/28/2012 10:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.58		pH units	11/28/12 10:00	R179410	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	22.8	0.2	mg/L	11/30/12	R178588	GSB
Fluoride	< 0.5	0.5	mg/L	11/30/12	R178588	GSB
Nitrogen, Nitrate (As N)	0.22	0.05	mg/L	11/30/12	R178588	GSB
Sulfate	293.	5.	mg/L	11/30/12	R178588	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	12/4/12 12:34	78543	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1100.	10.	mg/L	11/30/12 13:50	R178673	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	12/3/12 13:08	78542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	12/12/12 13:31	78529	AG
Arsenic	0.0156	0.005	mg/L	12/12/12 13:31	78529	AG
Barium	< 2.	2.	mg/L	12/12/12 13:31	78529	AG
Beryllium	< 0.004	0.004	mg/L	12/12/12 13:31	78529	AG
Boron	6.24	2.	mg/L	12/12/12 13:31	78529	AG
Cadmium	< 0.005	0.005	mg/L	12/12/12 13:31	78529	AG
Chromium	< 0.1	0.1	mg/L	12/12/12 13:31	78529	AG
Cobalt	< 1.	1.	mg/L	12/12/12 13:31	78529	AG
Copper	< 0.65	0.65	mg/L	12/12/12 13:31	78529	AG
Iron	134.	50.	mg/L	12/12/12 11:03	78529	AG
Lead	0.0433	0.0075	mg/L	12/12/12 13:31	78529	AG
Manganese	46.	1.5	mg/L	12/12/12 11:03	78529	AG
Nickel	< 0.1	0.1	mg/L	12/12/12 13:31	78529	AG
Selenium	< 0.05	0.05	mg/L	12/12/12 13:31	78529	AG
Silver	< 0.05	0.05	mg/L	12/12/12 13:31	78529	AG
Thallium	< 0.002	0.002	mg/L	12/12/12 13:31	78529	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-03

Client Sample ID: AP-2
Report Date: 1/31/2013
Collection Date: 11/28/2012 10:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	12/12/12 13:31	78529	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
Carbofuran	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0403	0.0403	C	µg/L	12/11/12 12:33	78746	LP
1,2-Dibromoethane	< 0.0565	0.0565	C	µg/L	12/11/12 12:33	78746	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/10/12 07:42	78562	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	12/12/12 11:54	78751	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	12/4/12 22:22	78503	LP
Atrazine	< 0.17	0.17		µg/L	12/4/12 22:22	78503	LP
Chlordane	< 0.08	0.08		µg/L	12/3/12 20:49	78503	LP
Endrin	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Heptachlor	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Methoxychlor	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Simazine	< 0.17	0.17		µg/L	12/4/12 22:22	78503	LP
Toxaphene	< 0.53	0.53		µg/L	12/3/12 20:49	78503	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1221	< 0.17	0.17		µg/L	12/4/12	78504	NCH
Aroclor 1232	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1242	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1248	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1254	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1260	< 0.08	0.08		µg/L	12/4/12	78504	NCH
PCB, Total	< 0.66	0.66		µg/L	12/4/12	78504	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-03

Client Sample ID: AP-2
Report Date: 1/31/2013
Collection Date: 11/28/2012 10:00:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	12/6/12 05:40	78450	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/6/12 05:40	78450	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	12/6/12 05:40	78450	RYL
Phenol	< 1.33	1.33		µg/L	12/6/12 05:40	78450	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	12/3/12	78467	DLO
2,4-D	< 0.23	0.23		µg/L	12/3/12	78467	DLO
Dinoseb	< 0.22	0.22		µg/L	12/3/12	78467	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	12/3/12	78467	DLO
Picloram	< 0.22	0.22	C	µg/L	12/3/12	78467	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	12/6/12 16:51	78646	JL
1,1,2-Trichloroethane	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
1,1-Dichloroethene	< 2.	2.		µg/L	12/6/12 16:51	78646	JL
1,2,4-Trichlorobenzene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
1,2-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
1,2-Dichloroethane	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
1,2-Dichloropropane	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
1,4-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Benzene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Carbon tetrachloride	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Chlorobenzene	< 2.	2.		µg/L	12/6/12 16:51	78646	JL
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	12/4/12 02:47	78559	XN
Ethylbenzene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Methyl tert-butyl ether	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Methylene chloride	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Styrene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Tetrachloroethene	< 10.	10.		µg/L	12/6/12 16:51	78646	JL
Toluene	< 2.	2.		µg/L	12/6/12 16:51	78646	JL
trans-1,2-Dichloroethene	< 2.	2.		µg/L	12/4/12 02:47	78559	XN
Trichloroethene	< 2.	2.		µg/L	12/6/12 16:51	78646	JL
Vinyl chloride	< 2.	2.		µg/L	12/4/12 02:47	78559	XN

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 10:00:00 AM
Lab ID:	12110767-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 6.	6.	µg/L	12/4/12 02:47	78559	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.74	pCi/L	1/29/13	R180984	OUT
Radium-228	0.92	0.85	pCi/L	1/29/13	R180984	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-04

Client Sample ID: AP-3
Report Date: 1/31/2013
Collection Date: 11/28/2012 9:15:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.35		pH units	11/28/12 08:25	R179410	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	54.6	0.2	mg/L	11/30/12	R178588	GSB
Fluoride	< 0.5	0.5	mg/L	11/30/12	R178588	GSB
Nitrogen, Nitrate (As N)	< 0.05	0.05	mg/L	11/30/12	R178588	GSB
Sulfate	318.	50.	mg/L	12/3/12	R178685	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	12/4/12 12:34	78543	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	928.	10.	mg/L	11/30/12 13:50	R178673	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	12/3/12 13:08	78542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	12/12/12 13:36	78529	AG
Arsenic	0.0136	0.005	mg/L	12/12/12 13:36	78529	AG
Barium	< 2.	2.	mg/L	12/12/12 13:36	78529	AG
Beryllium	< 0.004	0.004	mg/L	12/12/12 13:36	78529	AG
Boron	8.03	2.	mg/L	12/12/12 13:36	78529	AG
Cadmium	< 0.005	0.005	mg/L	12/12/12 13:36	78529	AG
Chromium	< 0.1	0.1	mg/L	12/12/12 13:36	78529	AG
Cobalt	< 1.	1.	mg/L	12/12/12 13:36	78529	AG
Copper	< 0.65	0.65	mg/L	12/12/12 13:36	78529	AG
Iron	15.5	5.	mg/L	12/12/12 13:36	78529	AG
Lead	< 0.0075	0.0075	mg/L	12/12/12 13:36	78529	AG
Manganese	8.64	0.15	mg/L	12/12/12 13:36	78529	AG
Nickel	< 0.1	0.1	mg/L	12/12/12 13:36	78529	AG
Selenium	< 0.05	0.05	mg/L	12/12/12 13:36	78529	AG
Silver	< 0.05	0.05	mg/L	12/12/12 13:36	78529	AG
Thallium	< 0.002	0.002	mg/L	12/12/12 13:36	78529	AG

Qualifiers:

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R - RPD outside accepted recovery limits
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Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	12/12/12 13:36	78529	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
Carbofuran	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0406	0.0406	C	µg/L	12/11/12 13:05	78746	LP
1,2-Dibromoethane	< 0.0568	0.0568	C	µg/L	12/11/12 13:05	78746	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/10/12 08:25	78562	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	12/12/12 12:37	78751	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	12/4/12 20:00	78503	LP
Atrazine	< 0.17	0.17		µg/L	12/4/12 20:00	78503	LP
Chlordane	< 0.08	0.08		µg/L	12/3/12 20:02	78503	LP
Endrin	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Heptachlor	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Methoxychlor	< 0.01	0.01		µg/L	12/3/12 20:02	78503	LP
Simazine	< 0.17	0.17		µg/L	12/4/12 20:00	78503	LP
Toxaphene	< 0.53	0.53		µg/L	12/3/12 20:02	78503	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1221	< 0.17	0.17		µg/L	12/4/12	78504	NCH
Aroclor 1232	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1242	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1248	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1254	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1260	< 0.08	0.08		µg/L	12/4/12	78504	NCH
PCB, Total	< 0.67	0.67		µg/L	12/4/12	78504	NCH

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Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 9:15:00 AM
Lab ID:	12110767-04	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	12/6/12 06:23	78450	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/6/12 06:23	78450	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	12/6/12 06:23	78450	RYL
Phenol	< 1.33	1.33		µg/L	12/6/12 06:23	78450	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	12/3/12	78467	DLO
2,4-D	< 0.23	0.23		µg/L	12/3/12	78467	DLO
Dinoseb	< 0.22	0.22		µg/L	12/3/12	78467	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	12/3/12	78467	DLO
Picloram	< 0.22	0.22	C	µg/L	12/3/12	78467	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	12/6/12 17:23	78646	JL
1,1,2-Trichloroethane	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
1,1-Dichloroethene	< 2.	2.		µg/L	12/6/12 17:23	78646	JL
1,2,4-Trichlorobenzene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
1,2-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
1,2-Dichloroethane	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
1,2-Dichloropropane	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
1,4-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Benzene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Carbon tetrachloride	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Chlorobenzene	< 2.	2.		µg/L	12/6/12 17:23	78646	JL
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	12/4/12 03:20	78559	XN
Ethylbenzene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Methyl tert-butyl ether	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Methylene chloride	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Styrene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Tetrachloroethene	< 10.	10.		µg/L	12/6/12 17:23	78646	JL
Toluene	< 2.	2.		µg/L	12/6/12 17:23	78646	JL
trans-1,2-Dichloroethene	< 2.	2.		µg/L	12/4/12 03:20	78559	XN
Trichloroethene	< 2.	2.		µg/L	12/6/12 17:23	78646	JL
Vinyl chloride	< 2.	2.		µg/L	12/4/12 03:20	78559	XN

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Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 9:15:00 AM
Lab ID:	12110767-04	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 6.	6.	µg/L	12/4/12 03:20	78559	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.45	0.19	pCi/L	1/11/13	R180319	OUT
Radium-228	1.6	0.9	pCi/L	1/11/13	R180319	OUT

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 8:25:00 AM
Lab ID:	12110767-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.09		pH units	11/28/12 08:25	R179410	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	10.5	0.2	mg/L	11/30/12	R178588	GSB
Fluoride	< 0.5	0.5	mg/L	11/30/12	R178588	GSB
Nitrogen, Nitrate (As N)	0.26	0.05	mg/L	11/30/12	R178588	GSB
Sulfate	< 5.	5.	mg/L	11/30/12	R178588	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	12/4/12 12:34	78543	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	574.	10.	mg/L	11/30/12 13:50	R178673	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	12/3/12 13:08	78542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	12/12/12 13:42	78529	AG
Arsenic	0.00608	0.005	mg/L	12/12/12 13:42	78529	AG
Barium	< 2.	2.	mg/L	12/12/12 13:42	78529	AG
Beryllium	< 0.004	0.004	mg/L	12/12/12 13:42	78529	AG
Boron	< 2.	2.	mg/L	12/12/12 13:42	78529	AG
Cadmium	< 0.005	0.005	mg/L	12/12/12 13:42	78529	AG
Chromium	< 0.1	0.1	mg/L	12/12/12 13:42	78529	AG
Cobalt	< 1.	1.	mg/L	12/12/12 13:42	78529	AG
Copper	< 0.65	0.65	mg/L	12/12/12 13:42	78529	AG
Iron	< 5.	5.	mg/L	12/12/12 13:42	78529	AG
Lead	< 0.0075	0.0075	mg/L	12/12/12 13:42	78529	AG
Manganese	< 0.15	0.15	mg/L	12/12/12 13:42	78529	AG
Nickel	< 0.1	0.1	mg/L	12/12/12 13:42	78529	AG
Selenium	< 0.05	0.05	mg/L	12/12/12 13:42	78529	AG
Silver	< 0.05	0.05	mg/L	12/12/12 13:42	78529	AG
Thallium	< 0.002	0.002	mg/L	12/12/12 13:42	78529	AG

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Client Sample ID: AP-4
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Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	12/12/12 13:42	78529	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
Carbofuran	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	12/11/12 13:36	78746	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	12/11/12 13:36	78746	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/10/12 09:08	78562	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	12/12/12 14:03	78751	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	12/4/12 20:47	78503	LP
Atrazine	< 0.17	0.17		µg/L	12/4/12 20:47	78503	LP
Chlordane	< 0.08	0.08		µg/L	12/3/12 20:49	78503	LP
Endrin	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Heptachlor	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Methoxychlor	< 0.01	0.01		µg/L	12/3/12 20:49	78503	LP
Simazine	< 0.17	0.17		µg/L	12/4/12 20:47	78503	LP
Toxaphene	< 0.53	0.53		µg/L	12/3/12 20:49	78503	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1221	< 0.17	0.17		µg/L	12/4/12	78504	NCH
Aroclor 1232	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1242	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1248	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1254	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1260	< 0.08	0.08		µg/L	12/4/12	78504	NCH
PCB, Total	< 0.66	0.66		µg/L	12/4/12	78504	NCH

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Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	12/6/12 07:07	78450	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/6/12 07:07	78450	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	12/6/12 07:07	78450	RYL
Phenol	< 1.33	1.33		µg/L	12/6/12 07:07	78450	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	12/3/12	78467	DLO
2,4-D	< 0.23	0.23		µg/L	12/3/12	78467	DLO
Dinoseb	< 0.22	0.22		µg/L	12/3/12	78467	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	12/3/12	78467	DLO
Picloram	< 0.22	0.22	C	µg/L	12/3/12	78467	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	12/6/12 17:56	78646	JL
1,1,2-Trichloroethane	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
1,1-Dichloroethene	< 2.	2.		µg/L	12/6/12 17:56	78646	JL
1,2,4-Trichlorobenzene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
1,2-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
1,2-Dichloroethane	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
1,2-Dichloropropane	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
1,4-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Benzene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Carbon tetrachloride	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Chlorobenzene	< 2.	2.		µg/L	12/6/12 17:56	78646	JL
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	12/4/12 03:52	78559	XN
Ethylbenzene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Methyl tert-butyl ether	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Methylene chloride	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Styrene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Tetrachloroethene	< 10.	10.		µg/L	12/6/12 17:56	78646	JL
Toluene	< 2.	2.		µg/L	12/6/12 17:56	78646	JL
trans-1,2-Dichloroethene	< 2.	2.		µg/L	12/4/12 03:52	78559	XN
Trichloroethene	< 2.	2.		µg/L	12/6/12 17:56	78646	JL
Vinyl chloride	< 2.	2.		µg/L	12/4/12 03:52	78559	XN

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Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 8:25:00 AM
Lab ID:	12110767-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 6.	6.	µg/L	12/4/12 03:52	78559	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.41	0.3	pCi/L	1/11/13	R180319	OUT
Radium-228	2.3	0.8	pCi/L	1/11/13	R180319	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 11:35:00 AM
Lab ID:	12110767-06	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.29		pH units	11/28/12 11:35	R179410	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	3.76	0.2	mg/L	11/30/12	R178588	GSB
Fluoride	< 0.5	0.5	mg/L	11/30/12	R178588	GSB
Nitrogen, Nitrate (As N)	0.25	0.05	mg/L	11/30/12	R178588	GSB
Sulfate	84.5	5.	mg/L	11/30/12	R178588	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	12/4/12 12:34	78543	CS2
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	404.	10.	mg/L	11/30/12 13:50	R178673	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	12/3/12 13:08	78542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.0096	0.0096	mg/L	12/12/12 13:47	78529	AG
Arsenic	0.0243	0.008	mg/L	12/12/12 13:47	78529	AG
Barium	< 3.2	3.2	mg/L	12/12/12 13:47	78529	AG
Beryllium	0.0164	0.0064	mg/L	12/12/12 13:47	78529	AG
Boron	< 3.2	3.2	mg/L	12/12/12 13:47	78529	AG
Cadmium	< 0.008	0.008	mg/L	12/12/12 13:47	78529	AG
Chromium	0.42	0.16	mg/L	12/12/12 13:47	78529	AG
Cobalt	< 1.6	1.6	mg/L	12/12/12 13:47	78529	AG
Copper	< 1.04	1.04	mg/L	12/12/12 13:47	78529	AG
Iron	576.	11.2	mg/L	12/12/12 11:03	78529	AG
Lead	0.277	0.012	mg/L	12/12/12 13:47	78529	AG
Manganese	23.2	0.6	mg/L	12/12/12 11:03	78529	AG
Nickel	0.321	0.16	mg/L	12/12/12 13:47	78529	AG
Selenium	< 0.08	0.08	mg/L	12/12/12 13:47	78529	AG
Silver	< 0.08	0.08	mg/L	12/12/12 13:47	78529	AG
Thallium	< 0.0032	0.0032	mg/L	12/12/12 13:47	78529	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 12110767
Project: CWLP List G20
Lab ID: 12110767-06

Client Sample ID: AP-5
Report Date: 1/31/2013
Collection Date: 11/28/2012 11:35:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 8.	8.		mg/L	12/12/12 13:47	78529	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
Carbofuran	< 2.	2.	C	µg/L	12/4/12	R178715	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0394	0.0394	C	µg/L	12/11/12 14:08	78746	LP
1,2-Dibromoethane	< 0.0552	0.0552	C	µg/L	12/11/12 14:08	78746	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/10/12 09:52	78562	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	12/12/12 13:20	78751	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	12/4/12 21:34	78503	LP
Atrazine	< 0.17	0.17		µg/L	12/4/12 21:34	78503	LP
Chlordane	< 0.08	0.08		µg/L	12/3/12 21:37	78503	LP
Endrin	< 0.01	0.01		µg/L	12/3/12 21:37	78503	LP
Heptachlor	< 0.01	0.01		µg/L	12/3/12 21:37	78503	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	12/3/12 21:37	78503	LP
Methoxychlor	< 0.01	0.01		µg/L	12/3/12 21:37	78503	LP
Simazine	< 0.17	0.17		µg/L	12/4/12 21:34	78503	LP
Toxaphene	< 0.53	0.53		µg/L	12/3/12 21:37	78503	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1221	< 0.17	0.17		µg/L	12/4/12	78504	NCH
Aroclor 1232	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1242	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1248	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1254	< 0.08	0.08		µg/L	12/4/12	78504	NCH
Aroclor 1260	< 0.08	0.08		µg/L	12/4/12	78504	NCH
PCB, Total	< 0.66	0.66		µg/L	12/4/12	78504	NCH

Qualifiers:

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 11:35:00 AM
Lab ID:	12110767-06	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	12/6/12 07:51	78450	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/6/12 07:51	78450	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	12/6/12 07:51	78450	RYL
Phenol	< 1.33	1.33		µg/L	12/6/12 07:51	78450	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	12/3/12	78467	DLO
2,4-D	< 0.23	0.23		µg/L	12/3/12	78467	DLO
Dinoseb	< 0.22	0.22		µg/L	12/3/12	78467	DLO
Pentachlorophenol	< 0.27	0.27	C	µg/L	12/3/12	78467	DLO
Picloram	< 0.22	0.22	C	µg/L	12/3/12	78467	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.	2.		µg/L	12/6/12 18:29	78646	JL
1,1,2-Trichloroethane	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
1,1-Dichloroethene	< 2.	2.		µg/L	12/6/12 18:29	78646	JL
1,2,4-Trichlorobenzene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
1,2-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
1,2-Dichloroethane	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
1,2-Dichloropropane	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
1,4-Dichlorobenzene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Benzene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Carbon tetrachloride	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Chlorobenzene	< 2.	2.		µg/L	12/6/12 18:29	78646	JL
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	12/4/12 04:25	78559	XN
Ethylbenzene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Methyl tert-butyl ether	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Methylene chloride	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Styrene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Tetrachloroethene	< 10.	10.		µg/L	12/6/12 18:29	78646	JL
Toluene	< 2.	2.		µg/L	12/6/12 18:29	78646	JL
trans-1,2-Dichloroethene	< 2.	2.		µg/L	12/4/12 04:25	78559	XN
Trichloroethene	< 2.	2.		µg/L	12/6/12 18:29	78646	JL
Vinyl chloride	< 2.	2.		µg/L	12/4/12 04:25	78559	XN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
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S - Spike Recovery outside accepted recovery limits
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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	12110767	**Report Date:**	1/31/2013
Project:	CWLP List G20	**Collection Date:**	11/28/2012 11:35:00 AM
Lab ID:	12110767-06	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 6.	6.	µg/L	12/4/12 04:25	78559	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.74	pCi/L	1/29/13	R180984	OUT
Radium-228	ND	1.28	pCi/L	1/29/13	R180984	OUT

Qualifiers:

- B - Analyte detected in the associated Method Blank
- E - Estimated
- H - Holding Time Exceeded
- C - Laboratory not accredited for this parameter
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- J - Analyte detected below quanititation limits

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # E110761

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3	GRAB	1 liter	G	10	DD	11-28-12	8:25	7.05	1		X	X	X	X	X	X	X				1A
AW-3	GRAB	1 liter	P	1	DD	11-28-12	8:25	7.05	1									X	X	X	1B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	11-28-12	11:50		11-28-12	11:50
	11-28-12	16:15			
				11-28-12	16:15

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:

11/15/2012 9:51:56 AM
Page 11

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 411067

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3	GRAB	12	4 oz	G	1	DD	11-28-12	8:25	7.05	8		X										C
AW-3	GRAB	12	500 ml	P	1	DD	11-28-12	8:25	7.05	4			X									D
AW-3	GRAB	12	500 ml	P	1	DD	11-28-12	8:25	7.05	3				X								E
AW-3	GRAB	12	44 ml	V	3	DD	11-28-12	8:25	7.05	5					X							F
AW-3	GRAB	12	44 ml	V	2	DD	11-28-12	8:25	7.05	1						X						G

Relinquished By:	Date: 11-28-12 Time: 11:50	Received By:	Date: 11-28-12 Time: 11:50
Relinquished By:	Date: 11-28-12 Time: 16:15	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11-28-12 Time: 16:15

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

Response to 1st RTP
CWLP - 02150

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 12110107

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1 GRAB	12	1 liter	G	10	GP	11/28/12	1045	7.22	1		X	X	X	X	X	X	X				A
AP-1 GRAB	12	1 liter	P	1	GP	11/28/12	1045	7.22	1									X	X	X	B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11-28-12	1615	[signature]	11-28-12	1615
Relinquished By:	Date: - -	Time: :	Received By:	Date: - -	Time: :
Relinquished By:	Date: - -	Time: :	Received By: Nathan	Date: 11/28/12	Time: 1615

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH 7.00 => 7.00 @ 0800

11/15/2012 9:51:53 AM
Page 1

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 121076

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	4 oz	G	1	CP	11/28/12	1045	7.22	8		X										C
AP-1	GRAB	12	500 ml	P	1	CP	11/28/12	1045	7.22	4			X									D
AP-1	GRAB	12	500 ml	P	1	CP	11/28/12	1045	7.22	3				X								E
AP-1	GRAB	12	44 ml	V	3	CP	11/28/12	1045	7.22	5					X							F
AP-1	GRAB	12	44 ml	V	2	CP	11/28/12	1045	7.22	1						X						G

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By: LAB	Date: 11-28-12 Time: 16:15	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20 Jar Lot No.
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11-29-12 Time: 1015	

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH:7.00 => 7.00 @ 0800

11/15/2012 9:51:54 AM

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER #1210767

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2 GRAB	12	1 liter	G	10	EC	11/28/12	1000	7.58	1		X	X	X	X	X	X	X				3A
AP-2 GRAB	12	1 liter	P	1	EC	11/28/12	1000	7.58	1									X	X	X	B

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By:	Date: 11-28-12 Time: 16:15	EMT USE ONLY
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: :	Received By: Marshall	Date: 11 28 12 Time: 1625	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE 7
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

PH: 7.00 => 7.00 @ 0800

11/15/2012 9:51:54 AM
Page 3

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ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER #121016

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	4 oz	G	1	SP	11/28/12	1000	7.58	8		X										2C
AP-2	GRAB	12	500 ml	P	1	SP	11/28/12	1000	7.58	4			X									D
AP-2	GRAB	12	500 ml	P	1	SP	11/28/12	1000	7.58	3				X								E
AP-2	GRAB	12	44 ml	V	3	SP	11/28/12	1000	7.58	5					X							F
AP-2	GRAB	12	44 ml	V	2	SP	11/28/12	1000	7.58	1						X						G

Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By:	Date: 11/28/12
	Time:	Marshall	Time: 1615

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:
PH : 7.00 => 7.00 @ 0800

11/15/2012 9:51:54 AM
Page 4

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # K110767

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3 GRAB	12	1 liter	G	10	SJ	11/25/12	0825	7.5	1		X	X	X	X	X	X	X				4A
AP-3 GRAB	12	1 liter	P	1	SJ	11/25/12	0825	7.5	1									X	X	X	B

Relinquished By:	Date:	Received By:	Date:
	Time: 16:15		Time: 16:15
Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: - -	Received By: Marcia H	Date: 11/26/12
	Time: :		Time: 10:10

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS: PH: 7.00 = 7. 7.00 @ 0800

11/15/2012 9:51:55 AM
Page 5

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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. ePoduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER #1211067

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	Analysis 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	4 oz	G	1	SP	11/28/12	0915	7.35	8		X										AC
AP-3	GRAB	12	500 ml	P	1	SP	11/28/12	0915	7.35	4			X									D
AP-3	GRAB	12	500 ml	P	1	SP	11/28/12	0915	7.35	3				X								E
AP-3	GRAB	12	44 ml	V	3	SP	11/28/12	0915	7.35	5					X							F
AP-3	GRAB	12	44 ml	V	2	SP	11/28/12	0915	7.35	1						X						G

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By:	Date: 11-28-12 Time: 16:15	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11/28/12 Time: 16:45	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS: pH: 7.00 => 7.00 @ 0800

11/15/2012 9:51:55 AM
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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER #12110767

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4 GRAB	12	1 liter	G	10	SP	11/28/12	0825	7.09	1		X	X	X	X	X	X	X				SA
AP-4 GRAB	12	1 liter	P	1	SP	11/28/12	0825	7.09	1									X	X	X	B

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By:	Date: 11-28-12 Time: 16:15	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11/28/12 Time: 1601	Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:
ph: 7.00 => 7.00 @ 0800

11/15/2012 9:51:55 AM
Page 7

Response to 1st RTP
CWLP - 02157

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 12110767

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4 GRAB	12	4 oz	G	1	SP	11/29/12	0825	7.09	8		X										C
AP-4 GRAB	12	500 ml	P	1	SP	11/29/12	0825	7.09	4			X									D
AP-4 GRAB	12	500 ml	P	1	SP	11/29/12	0825	7.09	3				X								E
AP-4 GRAB	12	44 ml	V	3	SP	11/29/12	0825	7.09	5					X							F
AP-4 GRAB	12	44 ml	V	2	SP	11/29/12	0825	7.09	1						X						G

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By:	Date: 11-29-12 Time: 16:15
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By: Hartnett	Date: 11/30/12 Time: 10:15

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No:

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:
pH: 7.00 => 7.00 @ 0800

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
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Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER #1211076

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	1 liter	G	10		11/28/12	1135	7.29	1		X	X	X	X	X	X	X				01A
AP-5	GRAB	12	1 liter	P	1		11/28/12	1135	7.29	1									X	X	X	B

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By: LAB	Date: 11-28-12 Time: 16:15	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	
Relinquished By:	Date: - - Time: : :	Received By: Marshall	Date: 11/28/12 Time: 1615	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH: 7.00 => 7.00 @ 0800

11/15/2012 9:51:56 AM
Page 9

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8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/15/2012
Due Date: 11/29/2012

COC # 504844

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 12116747

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	4 oz	G	1	SD	11/28/12	1135	7.29	8		1										QC
AP-5	GRAB	12	500 ml	P	1	SD	11/28/12	1135	7.29	4			1									D
AP-5	GRAB	12	500 ml	P	1	SD	11/28/12	1135	7.29	3				X								E
AP-5	GRAB	12	44 ml	V	3	SD	11/28/12	1135	7.29	5					X							E
AP-5	GRAB	12	44 ml	V	2	SD	11/28/12	1135	7.29	1						1						G

Relinquished By:	Date: 11-28-12 Time: 16:15	Received By:	Date: 11-28-12 Time: 16:15
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11/28/12 Time: 1601

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:
pH: 7.00 = 7.00 @ 0800

11/15/2012 9:51:56 AM
Page 10

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ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

April 03, 2013

RE 1Q13 CWLP List G20

Lab Orders:
13020600

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 39 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: City, Water, Light & Power

Project: 1Q13 CWLP List G20

Lab Order: 13020600

Date: *4/3/2013*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: City, Water, Light & Power
Project: 1Q13 CWLP List G20
Lab Order: 13020600

Date: *4/3/2013*

CASE NARRATIVE

Analytical Comments for METHOD 2540C_TDS_W, 13020600-05BDUP: The RPD result of 7.21% is above the laboratory control limit, but it is within the EPA limits.

Analytical Comments for METHOD 9056_IC_GRNDWTR, LCS-R181955: Continuing CCV standard recoveries for Chloride and Nitrate within the batch had recoveries above the lab control limits, but within 20% of the target values.

Analytical Comments for METHOD 2540C_TDS_W, 13020600-06BDUP: RPD recovery was above the laboratory control limit.

Analytical Comments for METHOD 8270_WNEW, 13020600-01A, 04A: Surrogate recovery was below the limits.

Analytical Comments for METHOD 8270_WNEW, 13020600-06A: 2,4,6-Tribromophenol surrogate recovery was below the limit.

Analytical Comments for METHOD RADIATION, 13020600-01A, 02A, 03A, 04A, 05A, 06A: The Radium-226/228 analysis completed from 3/20 to 3/26/13 by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-01

Client Sample ID: AP-2
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.8		pH units	2/21/13 11:40	R182087	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	25.2	2.	mg/L	2/22/13	R181955	GSB
Fluoride	< 0.5	0.5	mg/L	2/22/13	R181955	GSB
Nitrogen, Nitrate (As N)	0.13	0.05	mg/L	2/22/13	R181955	GSB
Sulfate	283.	50.	mg/L	2/26/13	R182058	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	2/25/13 16:30	80190	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	932.	10.	mg/L	2/22/13 12:55	R181948	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	2/25/13 11:44	80203	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	2/27/13 13:43	80223	AG
Arsenic	0.0738	0.05	mg/L	2/27/13 13:43	80223	AG
Barium	< 2.	2.	mg/L	2/27/13 13:43	80223	AG
Beryllium	< 0.004	0.004	mg/L	2/27/13 13:43	80223	AG
Boron	10.	0.687	mg/L	2/28/13 10:43	80223	AG
Cadmium	< 0.005	0.005	mg/L	2/27/13 13:43	80223	AG
Chromium	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Cobalt	< 1.	1.	mg/L	2/27/13 13:43	80223	AG
Copper	< 0.65	0.65	mg/L	2/27/13 13:43	80223	AG
Iron	87.9	3.5	mg/L	2/28/13 10:43	80223	AG
Lead	< 0.0075	0.0075	mg/L	2/27/13 13:43	80223	AG
Manganese	21.6	0.15	mg/L	2/27/13 13:43	80223	AG
Nickel	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Selenium	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Silver	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Thallium	< 0.002	0.002	mg/L	2/27/13 13:43	80223	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-01

Client Sample ID: AP-2
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	2/27/13 13:43	80223	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
Carbofuran	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0402	0.0402	C	µg/L	3/5/13 11:33	80376	LP
1,2-Dibromoethane	< 0.0563	0.0563	C	µg/L	3/5/13 11:33	80376	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	2/28/13 03:01	80216	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	3/1/13 16:44	80277	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	3/6/13 18:01	80174	LP
Atrazine	< 0.17	0.17		µg/L	3/6/13 18:01	80174	LP
Chlordane	< 0.08	0.08		µg/L	2/27/13 16:34	80174	LP
Endrin	< 0.01	0.01		µg/L	2/27/13 16:34	80174	LP
Heptachlor	< 0.01	0.01		µg/L	2/27/13 16:34	80174	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	2/27/13 16:34	80174	LP
Methoxychlor	< 0.01	0.01		µg/L	2/27/13 16:34	80174	LP
Simazine	< 0.17	0.17		µg/L	3/6/13 18:01	80174	LP
Toxaphene	< 0.53	0.53		µg/L	2/27/13 16:34	80174	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1221	< 0.17	0.17		µg/L	2/27/13	80175	NCH
Aroclor 1232	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1242	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1248	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1254	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1260	< 0.08	0.08		µg/L	2/27/13	80175	NCH
PCB, Total	< 0.66	0.66		µg/L	2/27/13	80175	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-01

Client Sample ID: AP-2
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	2/26/13 19:21	80170	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/26/13 19:21	80170	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	2/26/13 19:21	80170	RYL
Phenol	< 1.33	1.33		µg/L	2/26/13 19:21	80170	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	2/25/13	80166	DLO
2,4-D	< 0.23	0.23		µg/L	2/25/13	80166	DLO
Dinoseb	< 0.22	0.22		µg/L	2/25/13	80166	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	2/25/13	80166	DLO
Picloram	< 0.22	0.22	C	µg/L	2/25/13	80166	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 200.	200.		µg/L	2/22/13 16:12	80180	JL
1,1,2-Trichloroethane	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
1,1-Dichloroethene	< 7.	7.		µg/L	2/22/13 16:12	80180	JL
1,2,4-Trichlorobenzene	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
1,2-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
1,2-Dichloroethane	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
1,2-Dichloropropane	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
1,4-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
Benzene	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
Carbon tetrachloride	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
Chlorobenzene	< 100.	100.		µg/L	2/22/13 16:12	80180	JL
cis-1,2-Dichloroethene	< 70.	70.		µg/L	2/22/13 16:12	80180	JL
Ethylbenzene	< 700.	700.		µg/L	2/22/13 16:12	80180	JL
Methyl tert-butyl ether	< 70.	70.		µg/L	2/22/13 16:12	80180	JL
Methylene chloride	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
Styrene	< 100.	100.		µg/L	2/22/13 16:12	80180	JL
Tetrachloroethene	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
Toluene	< 1000.	1000.		µg/L	2/22/13 16:12	80180	JL
trans-1,2-Dichloroethene	< 100.	100.		µg/L	2/22/13 16:12	80180	JL
Trichloroethene	< 5.	5.		µg/L	2/22/13 16:12	80180	JL
Vinyl chloride	< 2.	2.		µg/L	2/22/13 16:12	80180	JL

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	13020600	**Report Date:**	4/3/2013
Project:	1Q13 CWLP List G20	**Collection Date:**	2/21/2013 11:40:00 AM
Lab ID:	13020600-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 10000.	10000.	µg/L	2/22/13 16:12	80180	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.3	0.4	pCi/L	3/26/13	R183278	OUT
Radium-228	ND	0.79	pCi/L	3/26/13	R183278	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-02

Client Sample ID: AW-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.68		pH units	2/21/13 08:10	R182087	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	26.2	2.	mg/L	2/22/13	R181955	GSB
Fluoride	< 0.5	0.5	mg/L	2/22/13	R181955	GSB
Nitrogen, Nitrate (As N)	0.1	0.05	mg/L	2/22/13	R181955	GSB
Sulfate	< 5.	5.	mg/L	2/22/13	R181955	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	2/25/13 16:30	80190	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	724.	10.	mg/L	2/22/13 12:55	R181948	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	2/25/13 11:44	80203	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	2/27/13 13:43	80223	AG
Arsenic	0.104	0.05	mg/L	2/27/13 13:43	80223	AG
Barium	< 2.	2.	mg/L	2/27/13 13:43	80223	AG
Beryllium	< 0.004	0.004	mg/L	2/27/13 13:43	80223	AG
Boron	0.706	0.687	mg/L	2/28/13 10:43	80223	AG
Cadmium	< 0.005	0.005	mg/L	2/27/13 13:43	80223	AG
Chromium	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Cobalt	< 1.	1.	mg/L	2/27/13 13:43	80223	AG
Copper	< 0.65	0.65	mg/L	2/27/13 13:43	80223	AG
Iron	13.	3.5	mg/L	2/28/13 10:43	80223	AG
Lead	< 0.0075	0.0075	mg/L	2/27/13 13:43	80223	AG
Manganese	0.306	0.15	mg/L	2/27/13 13:43	80223	AG
Nickel	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Selenium	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Silver	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Thallium	< 0.002	0.002	mg/L	2/27/13 13:43	80223	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-02

Client Sample ID: AW-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	2/27/13 13:43	80223	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
Carbofuran	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0401	0.0401	C	µg/L	3/5/13 09:40	80376	LP
1,2-Dibromoethane	< 0.0562	0.0562	C	µg/L	3/5/13 09:40	80376	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	2/28/13 03:45	80216	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	3/1/13 17:28	80277	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	3/6/13 18:49	80174	LP
Atrazine	< 0.17	0.17		µg/L	3/6/13 18:49	80174	LP
Chlordane	< 0.08	0.08		µg/L	2/27/13 17:24	80174	LP
Endrin	< 0.01	0.01		µg/L	2/27/13 17:24	80174	LP
Heptachlor	< 0.01	0.01		µg/L	2/27/13 17:24	80174	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	2/27/13 17:24	80174	LP
Methoxychlor	< 0.01	0.01		µg/L	2/27/13 17:24	80174	LP
Simazine	< 0.17	0.17		µg/L	3/6/13 18:49	80174	LP
Toxaphene	< 0.53	0.53		µg/L	2/27/13 17:24	80174	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1221	< 0.17	0.17		µg/L	2/27/13	80175	NCH
Aroclor 1232	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1242	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1248	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1254	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1260	< 0.08	0.08		µg/L	2/27/13	80175	NCH
PCB, Total	< 0.66	0.66		µg/L	2/27/13	80175	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-02

Client Sample ID: AW-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	2/26/13 20:06	80170	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/26/13 20:06	80170	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	2/26/13 20:06	80170	RYL
Phenol	< 1.33	1.33		µg/L	2/26/13 20:06	80170	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	2/25/13	80166	DLO
2,4-D	< 0.23	0.23		µg/L	2/25/13	80166	DLO
Dinoseb	< 0.22	0.22		µg/L	2/25/13	80166	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	2/25/13	80166	DLO
Picloram	< 0.22	0.22	C	µg/L	2/25/13	80166	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 200.	200.		µg/L	2/22/13 16:42	80180	JL
1,1,2-Trichloroethane	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
1,1-Dichloroethene	< 7.	7.		µg/L	2/22/13 16:42	80180	JL
1,2,4-Trichlorobenzene	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
1,2-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
1,2-Dichloroethane	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
1,2-Dichloropropane	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
1,4-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
Benzene	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
Carbon tetrachloride	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
Chlorobenzene	< 100.	100.		µg/L	2/22/13 16:42	80180	JL
cis-1,2-Dichloroethene	< 70.	70.		µg/L	2/22/13 16:42	80180	JL
Ethylbenzene	< 700.	700.		µg/L	2/22/13 16:42	80180	JL
Methyl tert-butyl ether	< 70.	70.		µg/L	2/22/13 16:42	80180	JL
Methylene chloride	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
Styrene	< 100.	100.		µg/L	2/22/13 16:42	80180	JL
Tetrachloroethene	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
Toluene	< 1000.	1000.		µg/L	2/22/13 16:42	80180	JL
trans-1,2-Dichloroethene	< 100.	100.		µg/L	2/22/13 16:42	80180	JL
Trichloroethene	< 5.	5.		µg/L	2/22/13 16:42	80180	JL
Vinyl chloride	< 2.	2.		µg/L	2/22/13 16:42	80180	JL

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-02

Client Sample ID: AW-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 10000.	10000.	µg/L	2/22/13 16:42	80180	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.1	0.5	pCi/L	3/26/13	R183278	OUT
Radium-228	1.	0.7	pCi/L	3/26/13	R183278	OUT

Qualifiers:

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H - Holding Time Exceeded
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-03

Client Sample ID: AP-5
Report Date: 4/3/2013
Collection Date: 2/21/2013 7:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.23		pH units	2/21/13 07:55	R182087	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	3.71	2.	mg/L	2/22/13	R181955	GSB
Fluoride	< 0.5	0.5	mg/L	2/22/13	R181955	GSB
Nitrogen, Nitrate (As N)	0.29	0.05	mg/L	2/22/13	R181955	GSB
Sulfate	83.4	5.	mg/L	2/22/13	R181955	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	2/25/13 16:30	80190	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	370.	10.	mg/L	2/22/13 12:55	R181948	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	2/25/13 11:44	80203	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	2/27/13 13:43	80223	AG
Arsenic	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Barium	< 2.	2.	mg/L	2/27/13 13:43	80223	AG
Beryllium	< 0.004	0.004	mg/L	2/27/13 13:43	80223	AG
Boron	< 0.687	0.687	mg/L	2/28/13 10:43	80223	AG
Cadmium	< 0.005	0.005	mg/L	2/27/13 13:43	80223	AG
Chromium	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Cobalt	< 1.	1.	mg/L	2/27/13 13:43	80223	AG
Copper	< 0.65	0.65	mg/L	2/27/13 13:43	80223	AG
Iron	62.6	3.5	mg/L	2/28/13 10:43	80223	AG
Lead	0.0244	0.0075	mg/L	2/27/13 13:43	80223	AG
Manganese	1.25	0.15	mg/L	2/27/13 13:43	80223	AG
Nickel	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Selenium	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Silver	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Thallium	< 0.002	0.002	mg/L	2/27/13 13:43	80223	AG

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-03

Client Sample ID: AP-5
Report Date: 4/3/2013
Collection Date: 2/21/2013 7:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	2/27/13 13:43	80223	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
Carbofuran	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0397	0.0397	C	µg/L	3/5/13 12:36	80376	LP
1,2-Dibromoethane	< 0.0555	0.0555	C	µg/L	3/5/13 12:36	80376	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	2/28/13 07:30	80216	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	3/1/13 18:55	80277	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	3/6/13 19:36	80174	LP
Atrazine	< 0.17	0.17		µg/L	3/6/13 19:36	80174	LP
Chlordane	< 0.08	0.08		µg/L	2/27/13 18:12	80174	LP
Endrin	< 0.01	0.01		µg/L	2/27/13 18:12	80174	LP
Heptachlor	< 0.01	0.01		µg/L	2/27/13 18:12	80174	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	2/27/13 18:12	80174	LP
Methoxychlor	< 0.01	0.01		µg/L	2/27/13 18:12	80174	LP
Simazine	< 0.17	0.17		µg/L	3/6/13 19:36	80174	LP
Toxaphene	< 0.53	0.53		µg/L	2/27/13 18:12	80174	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1221	< 0.17	0.17		µg/L	2/27/13	80175	NCH
Aroclor 1232	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1242	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1248	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1254	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1260	< 0.08	0.08		µg/L	2/27/13	80175	NCH
PCB, Total	< 0.66	0.66		µg/L	2/27/13	80175	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-03

Client Sample ID: AP-5
Report Date: 4/3/2013
Collection Date: 2/21/2013 7:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	2/26/13 20:52	80170	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/26/13 20:52	80170	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	2/26/13 20:52	80170	RYL
Phenol	< 1.33	1.33		µg/L	2/26/13 20:52	80170	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	2/25/13	80166	DLO
2,4-D	< 0.23	0.23		µg/L	2/25/13	80166	DLO
Dinoseb	< 0.22	0.22		µg/L	2/25/13	80166	DLO
Pentachlorophenol	< 0.26	0.26	C	µg/L	2/25/13	80166	DLO
Picloram	< 0.22	0.22	C	µg/L	2/25/13	80166	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 200.	200.		µg/L	2/22/13 17:12	80180	JL
1,1,2-Trichloroethane	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
1,1-Dichloroethene	< 7.	7.		µg/L	2/22/13 17:12	80180	JL
1,2,4-Trichlorobenzene	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
1,2-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
1,2-Dichloroethane	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
1,2-Dichloropropane	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
1,4-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
Benzene	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
Carbon tetrachloride	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
Chlorobenzene	< 100.	100.		µg/L	2/22/13 17:12	80180	JL
cis-1,2-Dichloroethene	< 70.	70.		µg/L	2/22/13 17:12	80180	JL
Ethylbenzene	< 700.	700.		µg/L	2/22/13 17:12	80180	JL
Methyl tert-butyl ether	< 70.	70.		µg/L	2/22/13 17:12	80180	JL
Methylene chloride	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
Styrene	< 100.	100.		µg/L	2/22/13 17:12	80180	JL
Tetrachloroethene	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
Toluene	< 1000.	1000.		µg/L	2/22/13 17:12	80180	JL
trans-1,2-Dichloroethene	< 100.	100.		µg/L	2/22/13 17:12	80180	JL
Trichloroethene	< 5.	5.		µg/L	2/22/13 17:12	80180	JL
Vinyl chloride	< 2.	2.		µg/L	2/22/13 17:12	80180	JL

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-03

Client Sample ID: AP-5
Report Date: 4/3/2013
Collection Date: 2/21/2013 7:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 10000.	10000.	µg/L	2/22/13 17:12	80180	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.6	0.2	pCi/L	3/26/13	R183278	OUT
Radium-228	1.6	0.8	pCi/L	3/26/13	R183278	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-04

Client Sample ID: AP-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.4		pH units	2/21/13 09:50	R182087	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	55.6	2.	mg/L	2/22/13	R181955	GSB
Fluoride	< 0.5	0.5	mg/L	2/22/13	R181955	GSB
Nitrogen, Nitrate (As N)	0.06	0.05	mg/L	2/22/13	R181955	GSB
Sulfate	292.	50.	mg/L	2/26/13	R182058	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	2/25/13 16:30	80190	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	624.	10.	mg/L	2/22/13 12:55	R181948	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	2/25/13 11:44	80203	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	0.00805	0.006	mg/L	2/27/13 13:43	80223	AG
Arsenic	0.0784	0.05	mg/L	2/27/13 13:43	80223	AG
Barium	< 2.	2.	mg/L	2/27/13 13:43	80223	AG
Beryllium	< 0.004	0.004	mg/L	2/27/13 13:43	80223	AG
Boron	29.1	0.687	mg/L	2/28/13 10:43	80223	AG
Cadmium	< 0.005	0.005	mg/L	2/27/13 13:43	80223	AG
Chromium	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Cobalt	< 1.	1.	mg/L	2/27/13 13:43	80223	AG
Copper	< 0.65	0.65	mg/L	2/27/13 13:43	80223	AG
Iron	165.	3.5	mg/L	2/28/13 10:43	80223	AG
Lead	< 0.0075	0.0075	mg/L	2/27/13 13:43	80223	AG
Manganese	6.18	0.15	mg/L	2/27/13 13:43	80223	AG
Nickel	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Selenium	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Silver	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Thallium	< 0.002	0.002	mg/L	2/27/13 13:43	80223	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-04

Client Sample ID: AP-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	2/27/13 13:43	80223	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
Carbofuran	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	3/5/13 13:07	80376	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	3/5/13 13:07	80376	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	2/28/13 08:15	80216	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	3/2/13 15:44	80277	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	3/6/13 20:23	80174	LP
Atrazine	< 0.17	0.17		µg/L	3/6/13 20:23	80174	LP
Chlordane	< 0.08	0.08		µg/L	2/27/13 18:59	80174	LP
Endrin	< 0.01	0.01		µg/L	2/27/13 18:59	80174	LP
Heptachlor	< 0.01	0.01		µg/L	2/27/13 18:59	80174	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	2/27/13 18:59	80174	LP
Methoxychlor	< 0.01	0.01		µg/L	2/27/13 18:59	80174	LP
Simazine	< 0.17	0.17		µg/L	3/6/13 20:23	80174	LP
Toxaphene	< 0.53	0.53		µg/L	2/27/13 18:59	80174	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1221	< 0.17	0.17		µg/L	2/27/13	80175	NCH
Aroclor 1232	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1242	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1248	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1254	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1260	< 0.08	0.08		µg/L	2/27/13	80175	NCH
PCB, Total	< 0.66	0.66		µg/L	2/27/13	80175	NCH

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-04

Client Sample ID: AP-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 0.13	0.13		µg/L	2/26/13 21:37	80170	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/26/13 21:37	80170	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	2/26/13 21:37	80170	RYL
Phenol	< 1.33	1.33		µg/L	2/26/13 21:37	80170	RYL
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	2/25/13	80166	DLO
2,4-D	< 0.23	0.23		µg/L	2/25/13	80166	DLO
Dinoseb	< 0.22	0.22		µg/L	2/25/13	80166	DLO
Pentachlorophenol	< 0.27	0.27	C	µg/L	2/25/13	80166	DLO
Picloram	< 0.22	0.22	C	µg/L	2/25/13	80166	DLO
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 200.	200.		µg/L	2/22/13 17:42	80180	JL
1,1,2-Trichloroethane	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
1,1-Dichloroethene	< 7.	7.		µg/L	2/22/13 17:42	80180	JL
1,2,4-Trichlorobenzene	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
1,2-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
1,2-Dichloroethane	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
1,2-Dichloropropane	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
1,4-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
Benzene	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
Carbon tetrachloride	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
Chlorobenzene	< 100.	100.		µg/L	2/22/13 17:42	80180	JL
cis-1,2-Dichloroethene	< 70.	70.		µg/L	2/22/13 17:42	80180	JL
Ethylbenzene	< 700.	700.		µg/L	2/22/13 17:42	80180	JL
Methyl tert-butyl ether	< 70.	70.		µg/L	2/22/13 17:42	80180	JL
Methylene chloride	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
Styrene	< 100.	100.		µg/L	2/22/13 17:42	80180	JL
Tetrachloroethene	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
Toluene	< 1000.	1000.		µg/L	2/22/13 17:42	80180	JL
trans-1,2-Dichloroethene	< 100.	100.		µg/L	2/22/13 17:42	80180	JL
Trichloroethene	< 5.	5.		µg/L	2/22/13 17:42	80180	JL
Vinyl chloride	< 2.	2.		µg/L	2/22/13 17:42	80180	JL

Qualifiers:

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-04

Client Sample ID: AP-3
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 10000.	10000.	µg/L	2/22/13 17:42	80180	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.66	pCi/L	3/26/13	R183278	OUT
Radium-228	0.85	0.7	pCi/L	3/26/13	R183278	OUT

Qualifiers:

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R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-05

Client Sample ID: AP-4
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.04		pH units	2/21/13 09:05	R182087	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	10.8	2.	mg/L	2/22/13	R181955	GSB
Fluoride	< 0.5	0.5	mg/L	2/22/13	R181955	GSB
Nitrogen, Nitrate (As N)	0.53	0.05	mg/L	2/22/13	R181955	GSB
Sulfate	< 5.	5.	mg/L	2/22/13	R181955	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	2/25/13 16:30	80190	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	460.	10.	mg/L	2/22/13 12:55	R181948	LS3
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	2/25/13 11:44	80203	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	2/27/13 13:43	80223	AG
Arsenic	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Barium	< 2.	2.	mg/L	2/27/13 13:43	80223	AG
Beryllium	< 0.004	0.004	mg/L	2/27/13 13:43	80223	AG
Boron	< 0.687	0.687	mg/L	2/28/13 10:43	80223	AG
Cadmium	< 0.005	0.005	mg/L	2/27/13 13:43	80223	AG
Chromium	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Cobalt	< 1.	1.	mg/L	2/27/13 13:43	80223	AG
Copper	< 0.65	0.65	mg/L	2/27/13 13:43	80223	AG
Iron	15.9	3.5	mg/L	2/28/13 10:43	80223	AG
Lead	< 0.0075	0.0075	mg/L	2/27/13 13:43	80223	AG
Manganese	< 0.15	0.15	mg/L	2/27/13 13:43	80223	AG
Nickel	< 0.1	0.1	mg/L	2/27/13 13:43	80223	AG
Selenium	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Silver	< 0.05	0.05	mg/L	2/27/13 13:43	80223	AG
Thallium	< 0.002	0.002	mg/L	2/27/13 13:43	80223	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-05

Client Sample ID: AP-4
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	2/27/13 13:43	80223	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
Carbofuran	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0403	0.0403	C	µg/L	3/5/13 13:39	80376	LP
1,2-Dibromoethane	< 0.0565	0.0565	C	µg/L	3/5/13 13:39	80376	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	2/28/13 08:59	80216	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	3/2/13 15:00	80277	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	3/6/13 21:11	80174	LP
Atrazine	< 0.17	0.17		µg/L	3/6/13 21:11	80174	LP
Chlordane	< 0.08	0.08		µg/L	2/27/13 19:46	80174	LP
Endrin	< 0.01	0.01		µg/L	2/27/13 19:46	80174	LP
Heptachlor	< 0.01	0.01		µg/L	2/27/13 19:46	80174	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	2/27/13 19:46	80174	LP
Methoxychlor	< 0.01	0.01		µg/L	2/27/13 19:46	80174	LP
Simazine	< 0.17	0.17		µg/L	3/6/13 21:11	80174	LP
Toxaphene	< 0.53	0.53		µg/L	2/27/13 19:46	80174	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1221	< 0.17	0.17		µg/L	2/27/13	80175	NCH
Aroclor 1232	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1242	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1248	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1254	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1260	< 0.08	0.08		µg/L	2/27/13	80175	NCH
PCB, Total	< 0.66	0.66		µg/L	2/27/13	80175	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-05

Client Sample ID: AP-4
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 0.13	0.13		µg/L	2/26/13 22:23	80170	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/26/13 22:23	80170	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	2/26/13 22:23	80170	RYL
Phenol	< 1.33	1.33		µg/L	2/26/13 22:23	80170	RYL
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	2/25/13	80166	DLO
2,4-D	< 0.23	0.23		µg/L	2/25/13	80166	DLO
Dinoseb	< 0.22	0.22		µg/L	2/25/13	80166	DLO
Pentachlorophenol	< 0.27	0.27	C	µg/L	2/25/13	80166	DLO
Picloram	< 0.22	0.22	C	µg/L	2/25/13	80166	DLO
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 200.	200.		µg/L	2/22/13 18:12	80180	JL
1,1,2-Trichloroethane	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
1,1-Dichloroethene	< 7.	7.		µg/L	2/22/13 18:12	80180	JL
1,2,4-Trichlorobenzene	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
1,2-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
1,2-Dichloroethane	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
1,2-Dichloropropane	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
1,4-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
Benzene	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
Carbon tetrachloride	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
Chlorobenzene	< 100.	100.		µg/L	2/22/13 18:12	80180	JL
cis-1,2-Dichloroethene	< 70.	70.		µg/L	2/22/13 18:12	80180	JL
Ethylbenzene	< 700.	700.		µg/L	2/22/13 18:12	80180	JL
Methyl tert-butyl ether	< 70.	70.		µg/L	2/22/13 18:12	80180	JL
Methylene chloride	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
Styrene	< 100.	100.		µg/L	2/22/13 18:12	80180	JL
Tetrachloroethene	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
Toluene	< 1000.	1000.		µg/L	2/22/13 18:12	80180	JL
trans-1,2-Dichloroethene	< 100.	100.		µg/L	2/22/13 18:12	80180	JL
Trichloroethene	< 5.	5.		µg/L	2/22/13 18:12	80180	JL
Vinyl chloride	< 2.	2.		µg/L	2/22/13 18:12	80180	JL

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-05

Client Sample ID: AP-4
Report Date: 4/3/2013
Collection Date: 2/21/2013 9:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 10000.	10000.	µg/L	2/22/13 18:12	80180	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.57	pCi/L	3/26/13	R183278	OUT
Radium-228	ND	0.83	pCi/L	3/26/13	R183278	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-06

Client Sample ID: AP-1
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.41		pH units	2/21/13 11:10	R182087	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	43.6	2.	mg/L	2/22/13	R181955	GSB
Fluoride	0.17	0.05	mg/L	2/22/13	R181955	GSB
Nitrogen, Nitrate (As N)	2.86	0.5	mg/L	2/22/13	R181955	GSB
Sulfate	506.	50.	mg/L	2/26/13	R182058	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.01	0.01	mg/L	2/26/13 12:05	80205	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1120.	10.	mg/L	2/26/13 08:55	R182103	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.0005	0.0005	mg/L	2/25/13 11:44	80203	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.006	0.006	mg/L	2/27/13 13:43	80226	AG
Arsenic	< 0.05	0.05	mg/L	2/27/13 13:43	80226	AG
Barium	< 2.	2.	mg/L	2/27/13 13:43	80226	AG
Beryllium	< 0.004	0.004	mg/L	2/27/13 13:43	80226	AG
Boron	3.9	2.	mg/L	2/27/13 13:43	80226	AG
Cadmium	< 0.005	0.005	mg/L	2/27/13 13:43	80226	AG
Chromium	< 0.1	0.1	mg/L	2/27/13 13:43	80226	AG
Cobalt	< 1.	1.	mg/L	2/27/13 13:43	80226	AG
Copper	< 0.65	0.65	mg/L	2/27/13 13:43	80226	AG
Iron	13.3	5.	mg/L	2/27/13 13:43	80226	AG
Lead	< 0.0075	0.0075	mg/L	2/27/13 13:43	80226	AG
Manganese	0.732	0.15	mg/L	2/27/13 13:43	80226	AG
Nickel	< 0.1	0.1	mg/L	2/27/13 13:43	80226	AG
Selenium	< 0.05	0.05	mg/L	2/27/13 13:43	80226	AG
Silver	< 0.05	0.05	mg/L	2/27/13 13:43	80226	AG
Thallium	< 0.002	0.002	mg/L	2/27/13 13:43	80226	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-06

Client Sample ID: AP-1
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.	5.		mg/L	2/27/13 13:43	80226	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
Carbofuran	< 2.	2.	C	µg/L	2/28/13	R182150	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	3/5/13 14:11	80376	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	3/5/13 14:11	80376	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	2/28/13 09:44	80216	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.5	0.5	C	µg/L	3/2/13 14:17	80277	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.13	0.13		µg/L	3/6/13 21:58	80174	LP
Atrazine	< 0.17	0.17		µg/L	3/6/13 21:58	80174	LP
Chlordane	< 0.08	0.08		µg/L	2/27/13 20:34	80174	LP
Endrin	< 0.01	0.01		µg/L	2/27/13 20:34	80174	LP
Heptachlor	< 0.01	0.01		µg/L	2/27/13 20:34	80174	LP
Heptachlor epoxide	< 0.01	0.01		µg/L	2/27/13 20:34	80174	LP
Methoxychlor	< 0.01	0.01		µg/L	2/27/13 20:34	80174	LP
Simazine	< 0.17	0.17		µg/L	3/6/13 21:58	80174	LP
Toxaphene	< 0.53	0.53		µg/L	2/27/13 20:34	80174	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1221	< 0.17	0.17		µg/L	2/27/13	80175	NCH
Aroclor 1232	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1242	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1248	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1254	< 0.08	0.08		µg/L	2/27/13	80175	NCH
Aroclor 1260	< 0.08	0.08		µg/L	2/27/13	80175	NCH
PCB, Total	< 0.67	0.67		µg/L	2/27/13	80175	NCH

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-06

Client Sample ID: AP-1
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 0.13	0.13		µg/L	2/27/13 18:00	80170	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/27/13 18:00	80170	RYL
Hexachlorocyclopentadiene	< 0.67	0.67		µg/L	2/27/13 18:00	80170	RYL
Phenol	< 1.33	1.33		µg/L	2/27/13 18:00	80170	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.25	0.25		µg/L	2/25/13	80166	DLO
2,4-D	< 0.23	0.23		µg/L	2/25/13	80166	DLO
Dinoseb	< 0.22	0.22		µg/L	2/25/13	80166	DLO
Pentachlorophenol	< 0.27	0.27	C	µg/L	2/25/13	80166	DLO
Picloram	< 0.22	0.22	C	µg/L	2/25/13	80166	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 200.	200.		µg/L	2/22/13 18:42	80180	JL
1,1,2-Trichloroethane	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
1,1-Dichloroethene	< 7.	7.		µg/L	2/22/13 18:42	80180	JL
1,2,4-Trichlorobenzene	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
1,2-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
1,2-Dichloroethane	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
1,2-Dichloropropane	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
1,4-Dichlorobenzene	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
Benzene	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
Carbon tetrachloride	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
Chlorobenzene	< 100.	100.		µg/L	2/22/13 18:42	80180	JL
cis-1,2-Dichloroethene	< 70.	70.		µg/L	2/22/13 18:42	80180	JL
Ethylbenzene	< 700.	700.		µg/L	2/22/13 18:42	80180	JL
Methyl tert-butyl ether	< 70.	70.		µg/L	2/22/13 18:42	80180	JL
Methylene chloride	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
Styrene	< 100.	100.		µg/L	2/22/13 18:42	80180	JL
Tetrachloroethene	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
Toluene	< 1000.	1000.		µg/L	2/22/13 18:42	80180	JL
trans-1,2-Dichloroethene	< 100.	100.		µg/L	2/22/13 18:42	80180	JL
Trichloroethene	< 5.	5.		µg/L	2/22/13 18:42	80180	JL
Vinyl chloride	< 2.	2.		µg/L	2/22/13 18:42	80180	JL

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13020600
Project: 1Q13 CWLP List G20
Lab ID: 13020600-06

Client Sample ID: AP-1
Report Date: 4/3/2013
Collection Date: 2/21/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 10000.	10000.	µg/L	2/22/13 18:42	80180	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	2.	0.5	pCi/L	3/26/13	R183278	OUT
Radium-228	ND	0.9	pCi/L	3/26/13	R183278	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13020400

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	1 liter	G	10	DD	2-21-13	11:40	7.18	1		X	X	X	X	X	X	X				A
AP-2	GRAB	12	1 liter	P	1	DD	2-21-13	11:40	7.18	1									X	X	X	B

Relinquished By:	Date:	Received By:	Date:
	Time: 15:30		Time:
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By:	Date: 2/21/13
	Time:		Time: 15:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)
3C

SPECIAL INSTRUCTIONS:

pH Cal 7.00 = 7.00 @ 7:40

2/19/2013 11:41:46 AM

Response to 1st RTP
CWLP - 02188

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

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Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER #13020600

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	4 oz	G	1	DD	2-21-13	11:40	7.75	8		X										C
AP-2	GRAB	12	500 ml	P	1	DD	2-21-13	11:40	7.75	4			X									D
AP-2	GRAB	12	500 ml	P	1	DD	2-21-13	11:40	7.75	3				X								E
AP-2	GRAB	12	44 ml	V	3	DD	2-21-13	11:40	7.75	5					X							F
AP-2	GRAB	12	44 ml	V	2	DD	2-21-13	11:40	7.88	1						X						G

Relinquished By:	Date: 2-21-13 Time: 15:30	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:

Response to 1st RTP
CWLP - 02189

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1302000

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3	GRAB	12	1 liter	G	10	DD	2-21-13	8:10	7.16	1		X	X	X	X	X	X	X				2A
AW-3	GRAB	12	1 liter	P	1	DD	2-21-13	8:10	7.16	1									X	X	X	B

Relinquished By:	Date: 2-21-13 Time: 15:30	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

Response to 1st RTP
CWLP - 02190

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
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Chain of Custody Record

Collected/Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 13020600

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	4 oz	G	1	DD	2-21-13	8:10	7.10	8		X										A
AW-3 GRAB	12	500 ml	P	1	DD	2-21-13	8:10	7.10	4			X									D
AW-3 GRAB	12	500 ml	P	1	DD	2-21-13	8:10	7.10	3				X								E
AW-3 GRAB	12	44 ml	V	3	DD	2-21-13	8:10	7.10	5					X							F
AW-3 GRAB	12	44 ml	V	2	DD	2-21-13	8:10	7.10	1						X						G

Relinquished By:	Date:	Received By:	Date:
	Time: 15:30		Time:
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

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Chain of Custody Record

Collected/Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER #1302000

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5 GRAB	12	1 liter	G	10	[illegible]	2/21/13	0755	7.23	1		X	X	X	X	X	X	X				3A
AP-5 GRAB	12	1 liter	P	1	[illegible]	2/21/13	0755	7.23	1									X	X	X	B

Relinquished By:	Date:	Received By:	Date:
[signature]	2-21-13 Time: 12:01	[signature]	2-21-13 Time: 12:01
[signature]	2-21-13 Time: 15:30		Time:
	Time:		Time:

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH: 7.00 => 7.01 @ 0740

32

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
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Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1302066

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	4 oz	G	1		2/21/13	0755	7.23	8		X										ZC
AP-5	GRAB	12	500 ml	P	1		2/21/13	0755	7.23	4			X									D
AP-5	GRAB	12	500 ml	P	1		2/21/13	0755	7.23	3				X								E
AP-5	GRAB	12	44 ml	V	3		2/21/13	0755	7.23	5					X							F
AP-5	GRAB	12	44 ml	V	2		2/21/13	0755	7.23	1						X						G

Relinquished By	Date	Time	Received By	Date	Time
	2-21-13	12:01		2-21-13	12:01
	2-21-13	15:30			

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)
ZC

SPECIAL INSTRUCTIONS:
pH: 7.00 => 7.01 @ 0740

2/19/2013 11:41:48 AM

Response to 1st RTP
CWLP - 02193

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1302000

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	1 liter	G	10	SP	2/21/13	0950	7.40	1		X	X	X	X	X	X	X				4A
AP-3	GRAB	12	1 liter	P	1	SP	2/21/13	0950	7.40	1									X	X	X	B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	2-21-13	12:01	[signature]	2-21-13	12:01
[signature]	2-21-13	15:30			

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:

ph. 7.00 = 7.01 @ 0740

2/19/2013 11:41:47 AM

Response to 1st RTP
CWLP - 02194

34

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1302060

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Preservation pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	4 oz	G	1	SD	2/21/13	0950	7.40	8		X										A/C
AP-3	GRAB	12	500 ml	P	1	SD	2/21/13	0950	7.40	4		X	X									B
AP-3	GRAB	12	500 ml	P	1	SD	2/21/13	0950	7.40	3			X	X								E
AP-3	GRAB	12	44 ml	V	3	SD	2/21/13	0950	7.40	5				X	X							F
AP-3	GRAB	12	44 ml	V	2	SD	2/21/13	0950	7.40	1					X	X						G

Relinquished By	Date/Time	Received By	Date/Time
	Date: 2-21-13 Time: 12:01		Date: 2-21-13 Time: 12:01
	Date: 2-21-13 Time: 15:30		Date: - - Time: :
	Date: - - Time: :		Date: - - Time: :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:
pH: 7.00 => 7.01 @ 0740

35

Response to 1st RTP
CWLP - 02195

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Collected/Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 320600

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4 GRAB	12	1 liter	G	10	[illegible]	2/21/13	0905	7.04	1		X	X	X	X	X	X	X				SA
AP-4 GRAB	12	1 liter	P	1	[illegible]	2/21/13	0905	7.04	1									X	X	X	B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	2-21-13	12:01	[signature]	2-21-13	12:01
[signature]	2-21-13	15:30		- -	:
	- -	:		- -	:

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH: 7.00 => 7.01 @ 0740

2/19/2013 11:41:47 AM

Response to 1st RTP
CWLP - 02196

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 13020600

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	4 oz	G	1	JD	2/21/13	0905	7.04	8		X										C
AP-4	GRAB	12	500 ml	P	1	JD	2/21/13	0905	7.04	4			X									D
AP-4	GRAB	12	500 ml	P	1	JD	2/21/13	0905	7.04	3				X								E
AP-4	GRAB	12	44 ml	V	3	JD	2/21/13	0905	7.04	5					X							F
AP-4	GRAB	12	44 ml	V	2	JD	2/21/13	0905	7.04	1						X						G

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	2-21-13	12:01	[signature]	2-21-13	12:01
[signature]	2-21-13	15:30			

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

pH - 7.00 = 7.01 @ 0740

2/19/2013 11:41:47 AM

Response to 1st RTP
CWLP - 02197

Electronic Filing: Received, Clerk's Office 01/29/2020

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8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER
#1302060

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	1 liter	G	10	SP	2/21/13	1110	7.41	1		X	X	X	X	X	X	X				A
AP-1	GRAB	12	1 liter	P	1	SP	2/21/13	1110	7.41	1									X	X	X	B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	2-21-13	12:01	[signature]	2-21-13	12:01
[signature]	2-21-13	15:30			

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS:
pH: 7.00 => 7.01 @ 0740

2/19/2013 11:41:45 AM

Response to 1st RTP
CWLP - 02198

38

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Chain of Custody Record

Scheduled Sampling Date: 02/19/2013
Due Date: 02/28/2013

COC # 504911

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1502060

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Preservation pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	4 oz	G	1	SD	2/21/13	1110	7.41	8		X										60
AP-1	GRAB	12	500 ml	P	1	SD	2/21/13	1110	7.41	4			X									D
AP-1	GRAB	12	500 ml	P	1	SD	2/21/13	1110	7.41	3				X								E
AP-1	GRAB	12	44 ml	V	3	SD	2/21/13	1110	7.41	5					X							F
AP-1	GRAB	12	44 ml	V	2	SD	2/21/13	1110	7.41	1						X						G

Relinquished By:	Date:	Received By:	Date:
	Time: 12 : 01 :		Time: 12 : 01 :
Relinquished By:	Date: 2 -21 -13	Received By:	Date: - -
	Time: 15 : 30 :		Time: : :
Relinquished By:	Date: - -	Received By:	Date: - -
	Time: : :		Time: : :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt)

SPECIAL INSTRUCTIONS: pH: 7.00 => 7.01 @ 0740

2/19/2013 11:41:45 AM

Response to 1st RTP
CWLP - 02199

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

June 27, 2013

RE CWLP List G20

Lab Orders:
13050718

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 39 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: City, Water, Light & Power
Project: CWLP List G20
Lab Order: 13050718

Date: *6/27/2013*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: City, Water, Light & Power
Project: CWLP List G20
Lab Order: 13050718

Date: *6/27/2013*

CASE NARRATIVE

Analytical Comments for METHOD 9056_IC_GRNDWTR, LCS1-R186137: LCS1 recovery was outside of the laboratory control limit.

Analytical Comments for METHOD 8270_WNEW, 13050718-06A: Surrogate recoveries were slightly below the laboratory limits.

Analytical Comments for METHOD 8270_WNEW, 13050718-02A, 03A,04A, 05A: Acid surrogate recoveries were below the laboratory limits.

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-01

Client Sample ID: AP-1
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**				
pH	6.95			pH units	5/22/13 01:10	R187668	SDS
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	44.8	2.00		mg/L	5/23/13	R186035	GSB
Fluoride	0.26	0.500	J	mg/L	5/23/13	R186035	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500		mg/L	5/23/13	R186035	GSB
Sulfate	603	50.0		mg/L	5/27/13	R186164	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.200	0.200		mg/L	5/23/13 14:43	82027	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	1,390	10.0		mg/L	5/24/13 11:00	R186173	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.000500	0.000500		mg/L	5/30/13 11:46	82163	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	0.0118	0.00375		mg/L	5/24/13 16:20	82036	AG
Arsenic	0.00976	0.00750		mg/L	5/24/13 16:20	82036	AG
Barium	0.306	0.00750		mg/L	5/24/13 16:20	82036	AG
Beryllium	< 0.00375	0.00375		mg/L	5/24/13 16:20	82036	AG
Boron	7.76	0.0100		mg/L	5/24/13 16:20	82036	AG
Cadmium	< 0.00125	0.00125		mg/L	5/24/13 16:20	82036	AG
Chromium	0.0024	0.00500	J	mg/L	5/24/13 16:20	82036	AG
Cobalt	< 0.00750	0.00750		mg/L	5/24/13 16:20	82036	AG
Copper	0.0022	0.00375	J	mg/L	5/24/13 16:20	82036	AG
Iron	12.2	0.0700		mg/L	5/24/13 16:20	82036	AG
Lead	0.0019	0.00250	J	mg/L	5/24/13 16:20	82036	AG
Manganese	0.182	0.00500		mg/L	5/24/13 16:20	82036	AG
Nickel	0.0025	0.00375	J	mg/L	5/24/13 16:20	82036	AG
Selenium	0.0204	0.00125	B	mg/L	5/24/13 16:20	82036	AG
Silver	0.0014	0.00250	J	mg/L	5/24/13 16:20	82036	AG
Thallium	0.00095	0.00125	J	mg/L	5/24/13 16:20	82036	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-01

Client Sample ID: AP-1
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Zinc	< 0.0250	0.0250		mg/L	5/24/13 16:20	82036	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 3.00	3.00	C	µg/L	5/29/13	R186228	LBI
Carbofuran	< 40.0	40.0	C	µg/L	5/29/13	R186228	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0397	0.0397	C	µg/L	5/31/13 10:42	82263	LP
1,2-Dibromoethane	< 0.0555	0.0555	C	µg/L	5/31/13 10:42	82263	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/25/13 01:48	82011	RYL
Surrogates:							
2,4,6-Tribromophenol	61.0	20-200		%REC	5/25/13 01:48	82011	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	5/29/13 13:13	82109	LP
Surrogates:							
2,4-Dichlorophenylacetic acid	82.6	63.8-150		%REC	5/29/13 13:13	82109	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.132	0.132		µg/L	6/5/13 00:42	82107	LP
Atrazine	< 0.165	0.165		µg/L	6/5/13 00:42	82107	LP
Chlordane	< 0.0792	0.0792		µg/L	6/3/13	82107	MNN
Endrin	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Heptachlor	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Heptachlor epoxide	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Methoxychlor	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Simazine	< 0.165	0.165		µg/L	6/5/13 00:42	82107	LP
Toxaphene	< 0.528	0.528		µg/L	6/3/13	82107	MNN
Surrogates:							
Decachlorobiphenyl	73.3	5-185		%REC	6/3/13	82107	MNN
TCMX	40.5	5-130		%REC	6/3/13	82107	MNN
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0825	0.0825		µg/L	5/30/13	82108	NCH

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-01

Client Sample ID: AP-1
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Aroclor 1221	< 0.165	0.165		µg/L	5/30/13	82108	NCH
Aroclor 1232	< 0.0825	0.0825		µg/L	5/30/13	82108	NCH
Aroclor 1242	< 0.0825	0.0825		µg/L	5/30/13	82108	NCH
Aroclor 1248	< 0.0825	0.0825		µg/L	5/30/13	82108	NCH
Aroclor 1254	< 0.0825	0.0825		µg/L	5/30/13	82108	NCH
Aroclor 1260	< 0.0825	0.0825		µg/L	5/30/13	82108	NCH
PCB, Total	< 0.660	0.660		µg/L	5/30/13	82108	NCH
Surrogates:							
2,4,5,6-Tetrachloro-m-xylene	40.2	5-116		%REC	5/30/13	82108	NCH
Decachlorobiphenyl	74.9	40-135		%REC	5/30/13	82108	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	5/26/13 02:06	82074	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	5/26/13 02:06	82074	RYL
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	5/26/13 02:06	82074	RYL
Phenol	< 0.666	0.666		µg/L	5/26/13 02:06	82074	RYL
Surrogates:							
2,4,6-Tribromophenol	41.7	40-125		%REC	5/26/13 02:06	82074	RYL
2-Fluorobiphenyl	50.0	50-110	S	%REC	5/26/13 02:06	82074	RYL
2-Fluorophenol	21.9	20-110		%REC	5/26/13 02:06	82074	RYL
4-Terphenyl-d14	78.5	50-135		%REC	5/26/13 02:06	82074	RYL
Nitrobenzene-d5	50.2	40-110		%REC	5/26/13 02:06	82074	RYL
Phenol-d5	12.7	10-115		%REC	5/26/13 02:06	82074	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 50.0	50.0		µg/L	5/31/13	82061	DLO
2,4-D	< 70.0	70.0		µg/L	5/31/13	82061	DLO
Dinoseb	< 7.00	7.00		µg/L	5/31/13	82061	DLO
Pentachlorophenol	< 1.00	1.00	C	µg/L	5/31/13	82061	DLO
Picloram	< 500	500	C	µg/L	5/31/13	82061	DLO
Surrogates:							
3,5-Dichlorobenzoic Acid	56.7	17.7-138		%REC	5/31/13	82061	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-01

Client Sample ID: AP-1
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
1,1-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
1,2-Dichloroethane	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
1,2-Dichloropropane	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Benzene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Carbon tetrachloride	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Chlorobenzene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	5/23/13 18:57	82106	MNN
Ethylbenzene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Methylene chloride	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Styrene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Tetrachloroethene	< 5.00	5.00		µg/L	5/23/13 18:57	82106	MNN
Toluene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Trichloroethene	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Vinyl chloride	< 2.00	2.00		µg/L	5/23/13 18:57	82106	MNN
Xylenes, Total	< 6.00	6.00		µg/L	5/23/13 18:57	82106	MNN
Surrogates:							
1,2-Dichloroethane-d4	103	70-120		%REC	5/23/13 18:57	82106	MNN
4-Bromofluorobenzene	102	75-120		%REC	5/23/13 18:57	82106	MNN
d4-1,2-Dichlorobenzene	109	80-120		%REC	5/23/13 18:57	82106	MNN
Dibromofluoromethane	94.9	85-115		%REC	5/23/13 18:57	82106	MNN
Fluorobenzene	104	80-120		%REC	5/23/13 18:57	82106	MNN
Toluene-d8	103	85-120		%REC	5/23/13 18:57	82106	MNN
Radiation Testing		**Method:**		**EPA 900/903.1/904/905/906**			
Radium-226	2.	0.5		pCi/L	6/7/13	R187607	OUT
Radium-228	1.3	0.8		pCi/L	6/7/13	R187607	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-02

Client Sample ID: AP-2
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**		**SM4500-H**			
pH	6.83			pH units	5/22/13 11:20	R187668	SDS
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	19.8	2.00		mg/L	5/25/13	R186137	GSB
Fluoride	0.43	0.500	J	mg/L	5/25/13	R186137	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500		mg/L	5/25/13	R186137	GSB
Sulfate	240	5.00		mg/L	5/25/13	R186137	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200		mg/L	5/23/13 14:43	82027	JZ1
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	950	10.0		mg/L	5/24/13 11:00	R186173	TB2
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500		mg/L	5/30/13 11:46	82163	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	0.0260	0.00600		mg/L	5/24/13 17:03	82036	AG
Arsenic	0.034	0.0500	J	mg/L	5/24/13 17:03	82036	AG
Barium	0.20	2.00	J	mg/L	5/24/13 17:03	82036	AG
Beryllium	< 0.00400	0.00400		mg/L	5/24/13 17:03	82036	AG
Boron	5.01	2.00		mg/L	5/24/13 17:03	82036	AG
Cadmium	< 0.00500	0.00500		mg/L	5/24/13 17:03	82036	AG
Chromium	0.0091	0.100	J	mg/L	5/24/13 17:03	82036	AG
Cobalt	0.0093	1.00	J	mg/L	5/24/13 17:03	82036	AG
Copper	0.0070	0.650	J	mg/L	5/24/13 17:03	82036	AG
Iron	15.8	5.00		mg/L	5/24/13 17:03	82036	AG
Lead	0.0048	0.00750	J	mg/L	5/24/13 17:03	82036	AG
Manganese	20.7	0.150		mg/L	5/24/13 17:03	82036	AG
Nickel	0.013	0.100	J	mg/L	5/24/13 17:03	82036	AG
Selenium	0.045	0.0500	J	mg/L	5/24/13 17:03	82036	AG
Silver	< 0.0500	0.0500		mg/L	5/24/13 17:03	82036	AG
Thallium	0.0018	0.00200	J	mg/L	5/24/13 17:03	82036	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-02

Client Sample ID: AP-2
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Zinc	0.022	5.00	J	mg/L	5/24/13 17:03	82036	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 3.00	3.00	C	µg/L	5/29/13	R186228	LBI
Carbofuran	< 40.0	40.0	C	µg/L	5/29/13	R186228	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	5/31/13 11:13	82263	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	5/31/13 11:13	82263	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/25/13 02:32	82011	RYL
Surrogates:							
2,4,6-Tribromophenol	46.7	20-200		%REC	5/25/13 02:32	82011	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	5/29/13 15:23	82109	LP
Surrogates:							
2,4-Dichlorophenylacetic acid	70.6	63.8-150		%REC	5/29/13 15:23	82109	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	6/5/13 01:29	82107	LP
Atrazine	< 0.166	0.166		µg/L	6/5/13 01:29	82107	LP
Chlordane	< 0.0795	0.0795		µg/L	6/3/13	82107	MNN
Endrin	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Heptachlor	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Heptachlor epoxide	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Methoxychlor	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Simazine	< 0.166	0.166		µg/L	6/5/13 01:29	82107	LP
Toxaphene	< 0.530	0.530		µg/L	6/3/13	82107	MNN
Surrogates:							
Decachlorobiphenyl	65.5	5-185		%REC	6/3/13	82107	MNN
TCMX	33.7	5-130		%REC	6/3/13	82107	MNN
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0828	0.0828		µg/L	5/30/13	82108	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-02

Client Sample ID: AP-2
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Aroclor 1221	< 0.166	0.166		µg/L	5/30/13	82108	NCH
Aroclor 1232	< 0.0828	0.0828		µg/L	5/30/13	82108	NCH
Aroclor 1242	< 0.0828	0.0828		µg/L	5/30/13	82108	NCH
Aroclor 1248	< 0.0828	0.0828		µg/L	5/30/13	82108	NCH
Aroclor 1254	< 0.0828	0.0828		µg/L	5/30/13	82108	NCH
Aroclor 1260	< 0.0828	0.0828		µg/L	5/30/13	82108	NCH
PCB, Total	< 0.663	0.663		µg/L	5/30/13	82108	NCH
Surrogates:							
2,4,5,6-Tetrachloro-m-xylene	43.3	5-116		%REC	5/30/13	82108	NCH
Decachlorobiphenyl	83.0	40-135		%REC	5/30/13	82108	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	5/26/13 01:24	82074	RYL
Bis(2-ethylhexyl)phthalate	0.39	1.33	J	µg/L	5/26/13 01:24	82074	RYL
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	5/26/13 01:24	82074	RYL
Phenol	< 0.666	0.666		µg/L	5/26/13 01:24	82074	RYL
Surrogates:							
2,4,6-Tribromophenol	39.2	40-125	S	%REC	5/26/13 01:24	82074	RYL
2-Fluorobiphenyl	70.3	50-110		%REC	5/26/13 01:24	82074	RYL
2-Fluorophenol	3.41	20-110	S	%REC	5/26/13 01:24	82074	RYL
4-Terphenyl-d14	116	50-135		%REC	5/26/13 01:24	82074	RYL
Nitrobenzene-d5	65.5	40-110		%REC	5/26/13 01:24	82074	RYL
Phenol-d5	1.45	10-115	S	%REC	5/26/13 01:24	82074	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 50.0	50.0		µg/L	5/31/13	82061	DLO
2,4-D	< 70.0	70.0		µg/L	5/31/13	82061	DLO
Dinoseb	< 7.00	7.00		µg/L	5/31/13	82061	DLO
Pentachlorophenol	< 1.00	1.00	C	µg/L	5/31/13	82061	DLO
Picloram	< 500	500	C	µg/L	5/31/13	82061	DLO
Surrogates:							
3,5-Dichlorobenzoic Acid	63.1	17.7-138		%REC	5/31/13	82061	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-02

Client Sample ID: AP-2
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
1,1-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
1,2-Dichloroethane	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
1,2-Dichloropropane	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Benzene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Carbon tetrachloride	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Chlorobenzene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	5/23/13 20:03	82106	MNN
Ethylbenzene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Methylene chloride	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Styrene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Tetrachloroethene	< 5.00	5.00		µg/L	5/23/13 20:03	82106	MNN
Toluene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Trichloroethene	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Vinyl chloride	< 2.00	2.00		µg/L	5/23/13 20:03	82106	MNN
Xylenes, Total	< 6.00	6.00		µg/L	5/23/13 20:03	82106	MNN
Surrogates:							
1,2-Dichloroethane-d4	112	70-120		%REC	5/23/13 20:03	82106	MNN
4-Bromofluorobenzene	99.6	75-120		%REC	5/23/13 20:03	82106	MNN
d4-1,2-Dichlorobenzene	111	80-120		%REC	5/23/13 20:03	82106	MNN
Dibromofluoromethane	100	85-115		%REC	5/23/13 20:03	82106	MNN
Fluorobenzene	101	80-120		%REC	5/23/13 20:03	82106	MNN
Toluene-d8	105	85-120		%REC	5/23/13 20:03	82106	MNN
Radiation Testing		**Method:**		**EPA 900/903.1/904/905/906**			
Radium-226	2.7	0.9		pCi/L	6/7/13	R187607	OUT
Radium-228	1.5	1.		pCi/L	6/7/13	R187607	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-03

Client Sample ID: AP-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**				
pH	7.07			pH units	5/22/13 10:40	R187668	SDS
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	47.5	2.00		mg/L	5/25/13	R186137	GSB
Fluoride	0.32	0.500	J	mg/L	5/25/13	R186137	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500		mg/L	5/25/13	R186137	GSB
Sulfate	347	50.0		mg/L	5/29/13	R186268	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	0.0032	0.200	J	mg/L	5/23/13 14:43	82027	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	1,040	10.0		mg/L	5/24/13 11:00	R186173	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.000500	0.000500		mg/L	5/30/13 11:46	82163	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	0.0161	0.00600		mg/L	5/24/13 17:08	82036	AG
Arsenic	0.016	0.0500	J	mg/L	5/24/13 17:08	82036	AG
Barium	0.095	2.00	J	mg/L	5/24/13 17:08	82036	AG
Beryllium	< 0.00400	0.00400		mg/L	5/24/13 17:08	82036	AG
Boron	18.7	2.00		mg/L	5/24/13 17:08	82036	AG
Cadmium	< 0.00500	0.00500		mg/L	5/24/13 17:08	82036	AG
Chromium	< 0.100	0.100		mg/L	5/24/13 17:08	82036	AG
Cobalt	< 1.00	1.00		mg/L	5/24/13 17:08	82036	AG
Copper	< 0.650	0.650		mg/L	5/24/13 17:08	82036	AG
Iron	14.0	5.00		mg/L	5/24/13 17:08	82036	AG
Lead	< 0.00750	0.00750		mg/L	5/24/13 17:08	82036	AG
Manganese	8.90	0.150		mg/L	5/24/13 17:08	82036	AG
Nickel	0.0077	0.100	J	mg/L	5/24/13 17:08	82036	AG
Selenium	0.013	0.0500	J	mg/L	5/24/13 17:08	82036	AG
Silver	< 0.0500	0.0500		mg/L	5/24/13 17:08	82036	AG
Thallium	< 0.00200	0.00200		mg/L	5/24/13 17:08	82036	AG

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-03

Client Sample ID: AP-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	5/24/13 17:08	82036	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
Carbofuran	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0402	0.0402	C	µg/L	5/31/13 12:16	82263	LP
1,2-Dibromoethane	< 0.0563	0.0563	C	µg/L	5/31/13 12:16	82263	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/25/13 03:16	82011	RYL
Surrogates:							
2,4,6-Tribromophenol	57.8	20-200		%REC	5/25/13 03:16	82011	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	5/29/13 16:06	82109	LP
Surrogates:							
2,4-Dichlorophenylacetic acid	78.0	63.8-150		%REC	5/29/13 16:06	82109	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.132	0.132		µg/L	6/5/13 02:16	82107	LP
Atrazine	< 0.165	0.165		µg/L	6/5/13 02:16	82107	LP
Chlordane	< 0.0791	0.0791		µg/L	6/3/13	82107	MNN
Endrin	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Heptachlor	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Heptachlor epoxide	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Methoxychlor	< 0.0132	0.0132		µg/L	6/3/13	82107	MNN
Simazine	< 0.165	0.165		µg/L	6/5/13 02:16	82107	LP
Toxaphene	< 0.527	0.527		µg/L	6/3/13	82107	MNN
Surrogates:							
Decachlorobiphenyl	77.9	5-185		%REC	6/3/13	82107	MNN
TCMX	39.6	5-130		%REC	6/3/13	82107	MNN
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0824	0.0824		µg/L	5/30/13	82108	NCH

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-03

Client Sample ID: AP-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Aroclor 1221	< 0.165	0.165		µg/L	5/30/13	82108	NCH
Aroclor 1232	< 0.0824	0.0824		µg/L	5/30/13	82108	NCH
Aroclor 1242	< 0.0824	0.0824		µg/L	5/30/13	82108	NCH
Aroclor 1248	< 0.0824	0.0824		µg/L	5/30/13	82108	NCH
Aroclor 1254	< 0.0824	0.0824		µg/L	5/30/13	82108	NCH
Aroclor 1260	< 0.0824	0.0824		µg/L	5/30/13	82108	NCH
PCB, Total	< 0.659	0.659		µg/L	5/30/13	82108	NCH
Surrogates:							
2,4,5,6-Tetrachloro-m-xylene	42.4	5-116		%REC	5/30/13	82108	NCH
Decachlorobiphenyl	83.0	40-135		%REC	5/30/13	82108	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	5/25/13 22:36	82074	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	5/25/13 22:36	82074	RYL
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	5/25/13 22:36	82074	RYL
Phenol	< 0.667	0.667		µg/L	5/25/13 22:36	82074	RYL
Surrogates:							
2,4,6-Tribromophenol	38.5	40-125	S	%REC	5/25/13 22:36	82074	RYL
2-Fluorobiphenyl	64.5	50-110		%REC	5/25/13 22:36	82074	RYL
2-Fluorophenol	4.65	20-110	S	%REC	5/25/13 22:36	82074	RYL
4-Terphenyl-d14	106	50-135		%REC	5/25/13 22:36	82074	RYL
Nitrobenzene-d5	62.5	40-110		%REC	5/25/13 22:36	82074	RYL
Phenol-d5	2.18	10-115	S	%REC	5/25/13 22:36	82074	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	5/28/13	82061	DLO
2,4-D	< 0.234	0.234		µg/L	5/28/13	82061	DLO
Dinoseb	< 0.219	0.219		µg/L	5/28/13	82061	DLO
Pentachlorophenol	< 0.264	0.264	C	µg/L	5/28/13	82061	DLO
Picloram	< 0.216	0.216	C	µg/L	5/28/13	82061	DLO
Surrogates:							
3,5-Dichlorobenzoic Acid	61.2	17.7-138		%REC	5/28/13	82061	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-03

Client Sample ID: AP-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
1,1-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
1,2-Dichloroethane	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
1,2-Dichloropropane	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Benzene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Carbon tetrachloride	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Chlorobenzene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	5/23/13 21:09	82106	MNN
Ethylbenzene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Methylene chloride	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Styrene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Tetrachloroethene	< 5.00	5.00		µg/L	5/23/13 21:09	82106	MNN
Toluene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Trichloroethene	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Vinyl chloride	< 2.00	2.00		µg/L	5/23/13 21:09	82106	MNN
Xylenes, Total	< 6.00	6.00		µg/L	5/23/13 21:09	82106	MNN
Surrogates:							
1,2-Dichloroethane-d4	107	70-120		%REC	5/23/13 21:09	82106	MNN
4-Bromofluorobenzene	104	75-120		%REC	5/23/13 21:09	82106	MNN
d4-1,2-Dichlorobenzene	111	80-120		%REC	5/23/13 21:09	82106	MNN
Dibromofluoromethane	101	85-115		%REC	5/23/13 21:09	82106	MNN
Fluorobenzene	101	80-120		%REC	5/23/13 21:09	82106	MNN
Toluene-d8	101	85-120		%REC	5/23/13 21:09	82106	MNN
Radiation Testing		**Method:**		**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.9		pCi/L	6/7/13	R187607	OUT
Radium-228	ND	0.83		pCi/L	6/7/13	R187607	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-04

Client Sample ID: AP-4
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**				
pH	7.23			pH units	5/22/13 10:00	R187668	SDS
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	11.0	2.00		mg/L	5/25/13	R186137	GSB
Fluoride	0.20	0.500	J	mg/L	5/25/13	R186137	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500		mg/L	5/25/13	R186137	GSB
Sulfate	0.30	5.00	J	mg/L	5/25/13	R186137	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.200	0.200		mg/L	5/23/13 14:43	82027	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	578	10.0		mg/L	5/24/13 11:00	R186173	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.000500	0.000500		mg/L	5/30/13 11:46	82163	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	0.0152	0.00600		mg/L	5/24/13 17:14	82036	AG
Arsenic	0.025	0.0500	J	mg/L	5/24/13 17:14	82036	AG
Barium	0.37	2.00	J	mg/L	5/24/13 17:14	82036	AG
Beryllium	< 0.00400	0.00400		mg/L	5/24/13 17:14	82036	AG
Boron	0.75	2.00	J	mg/L	5/24/13 17:14	82036	AG
Cadmium	< 0.00500	0.00500		mg/L	5/24/13 17:14	82036	AG
Chromium	0.0039	0.100	J	mg/L	5/24/13 17:14	82036	AG
Cobalt	< 1.00	1.00		mg/L	5/24/13 17:14	82036	AG
Copper	0.0040	0.650	J	mg/L	5/24/13 17:14	82036	AG
Iron	20.0	5.00		mg/L	5/24/13 17:14	82036	AG
Lead	0.0036	0.00750	J	mg/L	5/24/13 17:14	82036	AG
Manganese	0.324	0.150		mg/L	5/24/13 17:14	82036	AG
Nickel	0.0057	0.100	J	mg/L	5/24/13 17:14	82036	AG
Selenium	0.0079	0.0500	J	mg/L	5/24/13 17:14	82036	AG
Silver	0.0021	0.0500	J	mg/L	5/24/13 17:14	82036	AG
Thallium	< 0.00200	0.00200		mg/L	5/24/13 17:14	82036	AG

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Project: CWLP List G20
Lab ID: 13050718-04

Client Sample ID: AP-4
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	5/24/13 17:14	82036	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
Carbofuran	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	5/31/13 12:48	82263	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	5/31/13 12:48	82263	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/25/13 04:00	82011	RYL
Surrogates:							
2,4,6-Tribromophenol	67.6	20-200		%REC	5/25/13 04:00	82011	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	5/29/13 16:49	82109	LP
Surrogates:							
2,4-Dichlorophenylacetic acid	89.6	63.8-150		%REC	5/29/13 16:49	82109	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	6/5/13 03:04	82107	LP
Atrazine	< 0.167	0.167		µg/L	6/5/13 03:04	82107	LP
Chlordane	< 0.0799	0.0799		µg/L	6/3/13	82107	MNN
Endrin	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Heptachlor	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Heptachlor epoxide	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Methoxychlor	< 0.0133	0.0133		µg/L	6/3/13	82107	MNN
Simazine	< 0.167	0.167		µg/L	6/5/13 03:04	82107	LP
Toxaphene	< 0.533	0.533		µg/L	6/3/13	82107	MNN
Surrogates:							
Decachlorobiphenyl	90.0	5-185		%REC	6/3/13	82107	MNN
TCMX	38.7	5-130		%REC	6/3/13	82107	MNN
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0833	0.0833		µg/L	5/30/13	82108	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-04

Client Sample ID: AP-4
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Aroclor 1221	< 0.167	0.167		µg/L	5/30/13	82108	NCH
Aroclor 1232	< 0.0833	0.0833		µg/L	5/30/13	82108	NCH
Aroclor 1242	< 0.0833	0.0833		µg/L	5/30/13	82108	NCH
Aroclor 1248	< 0.0833	0.0833		µg/L	5/30/13	82108	NCH
Aroclor 1254	< 0.0833	0.0833		µg/L	5/30/13	82108	NCH
Aroclor 1260	< 0.0833	0.0833		µg/L	5/30/13	82108	NCH
PCB, Total	< 0.666	0.666		µg/L	5/30/13	82108	NCH
Surrogates:							
2,4,5,6-Tetrachloro-m-xylene	37.8	5-116		%REC	5/30/13	82108	NCH
Decachlorobiphenyl	77.0	40-135		%REC	5/30/13	82108	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	5/26/13	82074	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	5/26/13	82074	RYL
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	5/26/13	82074	RYL
Phenol	< 0.665	0.665		µg/L	5/26/13	82074	RYL
Surrogates:							
2,4,6-Tribromophenol	53.9	40-125		%REC	5/26/13	82074	RYL
2-Fluorobiphenyl	40.8	50-110	S	%REC	5/26/13	82074	RYL
2-Fluorophenol	15.9	20-110	S	%REC	5/26/13	82074	RYL
4-Terphenyl-d14	108	50-135		%REC	5/26/13	82074	RYL
Nitrobenzene-d5	35.5	40-110	S	%REC	5/26/13	82074	RYL
Phenol-d5	9.32	10-115	S	%REC	5/26/13	82074	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	5/28/13	82061	DLO
2,4-D	< 0.234	0.234		µg/L	5/28/13	82061	DLO
Dinoseb	< 0.219	0.219		µg/L	5/28/13	82061	DLO
Pentachlorophenol	< 0.264	0.264	C	µg/L	5/28/13	82061	DLO
Picloram	< 0.215	0.215	C	µg/L	5/28/13	82061	DLO
Surrogates:							
3,5-Dichlorobenzoic Acid	61.0	17.7-138		%REC	5/28/13	82061	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-04

Client Sample ID: AP-4
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
1,1-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
1,2-Dichloroethane	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
1,2-Dichloropropane	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Benzene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Carbon tetrachloride	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Chlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	5/23/13 22:15	82106	MNN
Ethylbenzene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Methylene chloride	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Styrene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Tetrachloroethene	< 5.00	5.00		µg/L	5/23/13 22:15	82106	MNN
Toluene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Trichloroethene	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Vinyl chloride	< 2.00	2.00		µg/L	5/23/13 22:15	82106	MNN
Xylenes, Total	< 6.00	6.00		µg/L	5/23/13 22:15	82106	MNN
Surrogates:							
1,2-Dichloroethane-d4	115	70-120		%REC	5/23/13 22:15	82106	MNN
4-Bromofluorobenzene	99.0	75-120		%REC	5/23/13 22:15	82106	MNN
d4-1,2-Dichlorobenzene	113	80-120		%REC	5/23/13 22:15	82106	MNN
Dibromofluoromethane	106	85-115		%REC	5/23/13 22:15	82106	MNN
Fluorobenzene	101	80-120		%REC	5/23/13 22:15	82106	MNN
Toluene-d8	101	85-120		%REC	5/23/13 22:15	82106	MNN
Radiation Testing		**Method:**		**EPA 900/903.1/904/905/906**			
Radium-226	0.84	0.83		pCi/L	6/7/13	R187607	OUT
Radium-228	0.69	0.65		pCi/L	6/7/13	R187607	OUT

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-05

Client Sample ID: AP-5
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**		**SM4500-H**			
pH	7.46			pH units	5/22/13 09:00	R187668	SDS
Anions by Ion Chromatography		**Method:**		**SW9056**			
Chloride	2.61	2.00		mg/L	5/25/13	R186137	GSB
Fluoride	0.43	0.500	J	mg/L	5/25/13	R186137	GSB
Nitrogen, Nitrate (As N)	0.637	0.500		mg/L	5/25/13	R186137	GSB
Sulfate	55.3	5.00		mg/L	5/25/13	R186137	GSB
Cyanide, Total		**Method:**		**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200		mg/L	5/23/13 14:43	82027	JZ1
Total Dissolved Solids		**Method:**		**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	410	10.0		mg/L	5/24/13 11:00	R186173	TB2
Mercury, Total		**Method:**		**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500		mg/L	5/30/13 11:46	82163	IG
Metals, Total.		**Method:**		**SW6020A / SW3015**			
Antimony	0.0160	0.00600		mg/L	5/24/13 17:19	82036	AG
Arsenic	0.0094	0.0500	J	mg/L	5/24/13 17:19	82036	AG
Barium	0.13	2.00	J	mg/L	5/24/13 17:19	82036	AG
Beryllium	< 0.00400	0.00400		mg/L	5/24/13 17:19	82036	AG
Boron	0.22	2.00	J	mg/L	5/24/13 17:19	82036	AG
Cadmium	< 0.00500	0.00500		mg/L	5/24/13 17:19	82036	AG
Chromium	0.016	0.100	J	mg/L	5/24/13 17:19	82036	AG
Cobalt	0.0086	1.00	J	mg/L	5/24/13 17:19	82036	AG
Copper	0.013	0.650	J	mg/L	5/24/13 17:19	82036	AG
Iron	20.7	5.00		mg/L	5/24/13 17:19	82036	AG
Lead	0.0104	0.00750		mg/L	5/24/13 17:19	82036	AG
Manganese	0.356	0.150		mg/L	5/24/13 17:19	82036	AG
Nickel	0.021	0.100	J	mg/L	5/24/13 17:19	82036	AG
Selenium	0.0046	0.0500	J	mg/L	5/24/13 17:19	82036	AG
Silver	0.0030	0.0500	J	mg/L	5/24/13 17:19	82036	AG
Thallium	< 0.00200	0.00200		mg/L	5/24/13 17:19	82036	AG

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-05

Client Sample ID: AP-5
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Zinc	0.048	5.00	J	mg/L	5/24/13 17:19	82036	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
Carbofuran	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0397	0.0397	C	µg/L	5/31/13 13:19	82263	LP
1,2-Dibromoethane	< 0.0555	0.0555	C	µg/L	5/31/13 13:19	82263	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/25/13 04:44	82011	RYL
Surrogates:							
2,4,6-Tribromophenol	52.2	20-200		%REC	5/25/13 04:44	82011	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	5/29/13 17:33	82109	LP
Surrogates:							
2,4-Dichlorophenylacetic acid	86.9	63.8-150		%REC	5/29/13 17:33	82109	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.132	0.132		µg/L	6/5/13 03:51	82107	LP
Atrazine	< 0.165	0.165		µg/L	6/5/13 03:51	82107	LP
Chlordane	< 0.0794	0.0794		µg/L	6/4/13	82107	MNN
Endrin	< 0.0132	0.0132		µg/L	6/4/13	82107	MNN
Heptachlor	< 0.0132	0.0132		µg/L	6/4/13	82107	MNN
Heptachlor epoxide	< 0.0132	0.0132		µg/L	6/4/13	82107	MNN
Methoxychlor	< 0.0132	0.0132		µg/L	6/4/13	82107	MNN
Simazine	< 0.165	0.165		µg/L	6/5/13 03:51	82107	LP
Toxaphene	< 0.530	0.530		µg/L	6/4/13	82107	MNN
Surrogates:							
Decachlorobiphenyl	89.9	5-185		%REC	6/4/13	82107	MNN
TCMX	46.0	5-130		%REC	6/4/13	82107	MNN
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0827	0.0827		µg/L	5/30/13	82108	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-05

Client Sample ID: AP-5
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Aroclor 1221	< 0.165	0.165		µg/L	5/30/13	82108	NCH
Aroclor 1232	< 0.0827	0.0827		µg/L	5/30/13	82108	NCH
Aroclor 1242	< 0.0827	0.0827		µg/L	5/30/13	82108	NCH
Aroclor 1248	< 0.0827	0.0827		µg/L	5/30/13	82108	NCH
Aroclor 1254	< 0.0827	0.0827		µg/L	5/30/13	82108	NCH
Aroclor 1260	< 0.0827	0.0827		µg/L	5/30/13	82108	NCH
PCB, Total	< 0.662	0.662		µg/L	5/30/13	82108	NCH
Surrogates:							
2,4,5,6-Tetrachloro-m-xylene	43.9	5-116		%REC	5/30/13	82108	NCH
Decachlorobiphenyl	81.4	40-135		%REC	5/30/13	82108	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	5/25/13 23:18	82074	RYL
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	5/25/13 23:18	82074	RYL
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	5/25/13 23:18	82074	RYL
Phenol	< 0.666	0.666		µg/L	5/25/13 23:18	82074	RYL
Surrogates:							
2,4,6-Tribromophenol	47.5	40-125		%REC	5/25/13 23:18	82074	RYL
2-Fluorobiphenyl	35.0	50-110	S	%REC	5/25/13 23:18	82074	RYL
2-Fluorophenol	14.0	20-110	S	%REC	5/25/13 23:18	82074	RYL
4-Terphenyl-d14	88.2	50-135		%REC	5/25/13 23:18	82074	RYL
Nitrobenzene-d5	32.5	40-110	S	%REC	5/25/13 23:18	82074	RYL
Phenol-d5	7.90	10-115	S	%REC	5/25/13 23:18	82074	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	5/28/13	82061	DLO
2,4-D	< 0.234	0.234		µg/L	5/28/13	82061	DLO
Dinoseb	< 0.219	0.219		µg/L	5/28/13	82061	DLO
Pentachlorophenol	< 0.264	0.264	C	µg/L	5/28/13	82061	DLO
Picloram	< 0.216	0.216	C	µg/L	5/28/13	82061	DLO
Surrogates:							
3,5-Dichlorobenzoic Acid	65.4	17.7-138		%REC	5/28/13	82061	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-05

Client Sample ID: AP-5
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
1,1-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
1,2-Dichloroethane	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
1,2-Dichloropropane	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Benzene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Carbon tetrachloride	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Chlorobenzene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	5/23/13 22:48	82106	MNN
Ethylbenzene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Methylene chloride	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Styrene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Tetrachloroethene	< 5.00	5.00		µg/L	5/23/13 22:48	82106	MNN
Toluene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Trichloroethene	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Vinyl chloride	< 2.00	2.00		µg/L	5/23/13 22:48	82106	MNN
Xylenes, Total	< 6.00	6.00		µg/L	5/23/13 22:48	82106	MNN
Surrogates:							
1,2-Dichloroethane-d4	117	70-120		%REC	5/23/13 22:48	82106	MNN
4-Bromofluorobenzene	102	75-120		%REC	5/23/13 22:48	82106	MNN
d4-1,2-Dichlorobenzene	114	80-120		%REC	5/23/13 22:48	82106	MNN
Dibromofluoromethane	105	85-115		%REC	5/23/13 22:48	82106	MNN
Fluorobenzene	101	80-120		%REC	5/23/13 22:48	82106	MNN
Toluene-d8	102	85-120		%REC	5/23/13 22:48	82106	MNN
Radiation Testing		**Method:**		**EPA 900/903.1/904/905/906**			
Radium-226	1.1	0.8		pCi/L	6/7/13	R187607	OUT
Radium-228	ND	0.68		pCi/L	6/7/13	R187607	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-06

Client Sample ID: AW-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**				
pH	7.63			pH units	5/22/13 11:10	R187668	SDS
Anions by Ion Chromatography		**Method:**	**SW9056**				
Chloride	28.9	2.00		mg/L	5/25/13	R186137	GSB
Fluoride	0.42	0.500	J	mg/L	5/25/13	R186137	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500		mg/L	5/25/13	R186137	GSB
Sulfate	40.8	5.00		mg/L	5/25/13	R186137	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**				
Cyanide	< 0.200	0.200		mg/L	5/23/13 14:43	82027	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**				
Total Dissolved Solids (Residue, Filterable)	436	10.0		mg/L	5/24/13 11:00	R186173	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**				
Mercury	< 0.000500	0.000500		mg/L	5/30/13 11:46	82163	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**				
Antimony	0.0128	0.00600		mg/L	5/24/13 17:24	82036	AG
Arsenic	0.015	0.0500	J	mg/L	5/24/13 17:24	82036	AG
Barium	0.059	2.00	J	mg/L	5/24/13 17:24	82036	AG
Beryllium	< 0.00400	0.00400		mg/L	5/24/13 17:24	82036	AG
Boron	0.22	2.00	J	mg/L	5/24/13 17:24	82036	AG
Cadmium	< 0.00500	0.00500		mg/L	5/24/13 17:24	82036	AG
Chromium	< 0.100	0.100		mg/L	5/24/13 17:24	82036	AG
Cobalt	< 1.00	1.00		mg/L	5/24/13 17:24	82036	AG
Copper	0.0025	0.650	J	mg/L	5/24/13 17:24	82036	AG
Iron	1.2	5.00	J	mg/L	5/24/13 17:24	82036	AG
Lead	< 0.00750	0.00750		mg/L	5/24/13 17:24	82036	AG
Manganese	0.045	0.150	J	mg/L	5/24/13 17:24	82036	AG
Nickel	0.0026	0.100	J	mg/L	5/24/13 17:24	82036	AG
Selenium	0.0025	0.0500	J	mg/L	5/24/13 17:24	82036	AG
Silver	< 0.0500	0.0500		mg/L	5/24/13 17:24	82036	AG
Thallium	< 0.00200	0.00200		mg/L	5/24/13 17:24	82036	AG

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-06

Client Sample ID: AW-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	5/24/13 17:24	82036	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
Carbofuran	< 2.00	2.00	C	µg/L	5/30/13	R186278	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0395	0.0395	C	µg/L	5/31/13 13:51	82263	LP
1,2-Dibromoethane	< 0.0554	0.0554	C	µg/L	5/31/13 13:51	82263	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	5/25/13 06:55	82054	RYL
Surrogates:							
2,4,6-Tribromophenol	49.2	20-200		%REC	5/25/13 06:55	82054	RYL
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	6/3/13 23:40	82231	LP
Surrogates:							
2,4-Dichlorophenylacetic acid	74.0	63.8-150		%REC	6/3/13 23:40	82231	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.131	0.131		µg/L	6/5/13 04:38	82107	LP
Atrazine	< 0.164	0.164		µg/L	6/5/13 04:38	82107	LP
Chlordane	< 0.0786	0.0786		µg/L	6/4/13	82107	MNN
Endrin	< 0.0131	0.0131		µg/L	6/4/13	82107	MNN
Heptachlor	< 0.0131	0.0131		µg/L	6/4/13	82107	MNN
Heptachlor epoxide	< 0.0131	0.0131		µg/L	6/4/13	82107	MNN
Methoxychlor	< 0.0131	0.0131		µg/L	6/4/13	82107	MNN
Simazine	< 0.164	0.164		µg/L	6/5/13 04:38	82107	LP
Toxaphene	< 0.524	0.524		µg/L	6/4/13	82107	MNN
Surrogates:							
Decachlorobiphenyl	75.6	5-185		%REC	6/4/13	82107	MNN
TCMX	31.9	5-130		%REC	6/4/13	82107	MNN
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0819	0.0819		µg/L	5/30/13	82108	NCH

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-06

Client Sample ID: AW-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
Aroclor 1221	< 0.164	0.164		µg/L	5/30/13	82108	NCH
Aroclor 1232	< 0.0819	0.0819		µg/L	5/30/13	82108	NCH
Aroclor 1242	< 0.0819	0.0819		µg/L	5/30/13	82108	NCH
Aroclor 1248	< 0.0819	0.0819		µg/L	5/30/13	82108	NCH
Aroclor 1254	< 0.0819	0.0819		µg/L	5/30/13	82108	NCH
Aroclor 1260	< 0.0819	0.0819		µg/L	5/30/13	82108	NCH
PCB, Total	< 0.655	0.655		µg/L	5/30/13	82108	NCH
Surrogates:							
2,4,5,6-Tetrachloro-m-xylene	33.7	5-116		%REC	5/30/13	82108	NCH
Decachlorobiphenyl	76.4	40-135		%REC	5/30/13	82108	NCH
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	5/26/13 21:27	82074	RYL
Bis(2-ethylhexyl)phthalate	0.63	1.33	J	µg/L	5/26/13 21:27	82074	RYL
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	5/26/13 21:27	82074	RYL
Phenol	< 0.664	0.664		µg/L	5/26/13 21:27	82074	RYL
Surrogates:							
2,4,6-Tribromophenol	38.1	40-125	S	%REC	5/26/13 21:27	82074	RYL
2-Fluorobiphenyl	49.2	50-110	S	%REC	5/26/13 21:27	82074	RYL
2-Fluorophenol	17.8	20-110	S	%REC	5/26/13 21:27	82074	RYL
4-Terphenyl-d14	81.2	50-135		%REC	5/26/13 21:27	82074	RYL
Nitrobenzene-d5	43.3	40-110		%REC	5/26/13 21:27	82074	RYL
Phenol-d5	12.6	10-115		%REC	5/26/13 21:27	82074	RYL
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	5/28/13	82061	DLO
2,4-D	< 0.234	0.234		µg/L	5/28/13	82061	DLO
Dinoseb	< 0.220	0.220		µg/L	5/28/13	82061	DLO
Pentachlorophenol	< 0.264	0.264	C	µg/L	5/28/13	82061	DLO
Picloram	< 0.216	0.216	C	µg/L	5/28/13	82061	DLO
Surrogates:							
3,5-Dichlorobenzoic Acid	59.9	17.7-138		%REC	5/28/13	82061	DLO
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13050718
Project: CWLP List G20
Lab ID: 13050718-06

Client Sample ID: AW-3
Report Date: 6/27/2013
Collection Date: 5/23/2013
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Qual	Units	Date Analyzed	Batch	Analyst
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
1,1-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
1,2-Dichloroethane	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
1,2-Dichloropropane	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Benzene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Carbon tetrachloride	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Chlorobenzene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
cis-1,2-Dichloroethene	< 3.72	3.72		µg/L	5/23/13 23:21	82106	MNN
Ethylbenzene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Methylene chloride	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Styrene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Tetrachloroethene	< 5.00	5.00		µg/L	5/23/13 23:21	82106	MNN
Toluene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Trichloroethene	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Vinyl chloride	< 2.00	2.00		µg/L	5/23/13 23:21	82106	MNN
Xylenes, Total	< 6.00	6.00		µg/L	5/23/13 23:21	82106	MNN
Surrogates:							
1,2-Dichloroethane-d4	114	70-120		%REC	5/23/13 23:21	82106	MNN
4-Bromofluorobenzene	104	75-120		%REC	5/23/13 23:21	82106	MNN
d4-1,2-Dichlorobenzene	114	80-120		%REC	5/23/13 23:21	82106	MNN
Dibromofluoromethane	99.8	85-115		%REC	5/23/13 23:21	82106	MNN
Fluorobenzene	100	80-120		%REC	5/23/13 23:21	82106	MNN
Toluene-d8	102	85-120		%REC	5/23/13 23:21	82106	MNN
Radiation Testing		**Method:**		**EPA 900/903.1/904/905/906**			
Radium-226	ND	-0.08		pCi/L	6/7/13	R187607	OUT
Radium-228	ND	0.76		pCi/L	6/7/13	R187607	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

Electronic Filing: Received, Clerk's Office 01/29/2020

3 P

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 13050218

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1 GRAB	12	1 liter	G	10	KE	5/22/13	12:10	6.95	1		X	X	X	X	X	X	X				01A
AP-1 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	01B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Andy Earn	5-22-13	13:30	[signature]	5-22-13	13:30
[signature]	5-22-13	16:30	[signature]	5-22-13	16:30
	- -	:	Sarah Stinde	5-22-13	16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH 4.00 = 7.00 @ 68.3°
Time: 08:32

5/17/2013 9:00:39 AM

82

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 13050718

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	4 oz	G	1	AE	5/22/13	12:10	6.95	8		X										01C
AP-1	GRAB	12	500 ml	P	1					4			X									01D
AP-1	GRAB	12	500 ml	P	1					3				X								01E
AP-1	GRAB	12	44 ml	V	3					5					X							01F
AP-1	GRAB	12	44 ml	V	2					1						X						01G

Relinquished By:	Date:	Received By:	Date:
Austin Sauer	Time: 13:30		Time: 13:30
	Date: 5-22-13	Received By: for LAC	Date: 5-22-13
	Time: 16:30		Time: 16:30
Relinquished By:	Date: - -	Received By:	Date: 5-22-13
	Time: :		Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

5/17/2013 9:00:41 AM

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER #130507 18

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	1 liter	G	10	AE	5/22/13	1120	6.83	1		X	X	X	X	X	X	X				02A
AP-2	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	02B

Relinquished By:	Date:	Received By:	Date:	EMT USE ONLY	SAMPLE RECEIVED ON ICE
Austin Sauer	5-22-13 Time: 13:30		5-22-13 Time: 13:30	ClientID: SPRING	TEMPERATURE
Relinquished By:	Date: 5-22-13 Time: 16:30	Received By: FedEx	Date: 5-22-13 Time: 16:30	Client Contact: Joe Pavilonis	(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2
Relinquished By:	Date: - - Time: :	Received By: Sarah Hinde	Date: 5-22-13 Time: 16:30	EMT Project ID: CWLP List G20	
				Jar Lot No.	

SPECIAL INSTRUCTIONS: pH 7.00 @ 68.3°C

Time = 08:32

5/17/2013 9:00:41 AM

Response to 1st RTP
CWLP - 02229

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 13056718

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	4 oz	G	1	AZ	5/22/13	11:20	6.83	8		X										02C
AP-2	GRAB	12	500 ml	P	1					4			X									02D
AP-2	GRAB	12	500 ml	P	1					3				X								02E
AP-2	GRAB	12	44 ml	V	3					5					X							02F
AP-2	GRAB	12	44 ml	V	2					1						X						02G

Relinquished By:	Date: 5-22-13 Time: 13:30	Received By:	Date: 5-22-13 Time: 13:30
Relinquished By:	Date: 5-22-13 Time: 16:30	Received By:	Date: 5-22-13 Time: 16:30
Relinquished By:	Date: - - Time: :	Received By:	Date: 5-22-13 Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

5/17/2013 9:00:42 AM

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13050718

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3 GRAB	12	1 liter	G	10	AE	5/22/13	10:40	~~7.07~~	1		X	X	X	X	X	X	X				03A
AP-3 GRAB	12	1 liter	P	1	↓	↓	↓	7.07	1									X	X	X	03B

Relinquished By:	Date:	Received By:	Date:
[signature]	5-22-13 Time: 13:30	[signature]	5-22-13 Time: 13:30
[signature]	5-22-13 Time: 16:30	[signature]	5-22-13 Time: 16:30
	Date: - - Time: :	[signature]	5-22-13 Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH 7.00 = 7.00 @ 08.3°
TIME: 0832

5/17/2013 9:00:43 AM

Response to 1st RTP
CWLP - 02231

32

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 1305078

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	4 oz	G	1	AE	5/22/13	10:40	7.09	8		X										03C
AP-3	GRAB	12	500 ml	P	1					4			X									03D
AP-3	GRAB	12	500 ml	P	1					3				X								03E
AP-3	GRAB	12	44 ml	V	3					5					X							03F
AP-3	GRAB	12	44 ml	V	2					1						X						03G

Relinquished By: Austin Cross	Date: 5-22-13 Time: 13:30	Received By:	Date: 5-22-13 Time: 13:30	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20 Jar Lot No.
Relinquished By:	Date: 5-22-13 Time: 16:30	Received By: FOX/AE	Date: 5-22-13 Time: 16:30	☐ SAMPLE RECEIVED ON ICE ☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2
Relinquished By:	Date: - - Time: : :	Received By:	Date: 5-22-13 Time: 16:30	

SPECIAL INSTRUCTIONS:

5/17/2013 9:00:45 AM

Response to 1st RTP
CWLP - 02232

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 13050718

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	1 liter	G	10	AE	5/22/13	10:00	7.23	1		X	X	X	X	X	X	X				04A
AP-4	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	04B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Austin Soon	5-22-13	13:30		5-22-13	13:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	5-22-13	16:30	Sarah Stinde	5-22-13	16:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	- -	:		- -	:

EMT USE ONLY

ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00 → 7.00 @ 68.35°
Time = 18:32

5/17/2013 9:00:45 AM

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER #13050718

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4 GRAB	12	4 oz	G	1	AE	5/22/13	10:00	7.23	8		X										04C
AP-4 GRAB	12	500 ml	P	1					4			X									04D
AP-4 GRAB	12	500 ml	P	1					3				X								04E
AP-4 GRAB	12	44 ml	V	3					5					X							04F
AP-4 GRAB	12	44 ml	V	2					1						X						04G

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Austin Zaun	5-22-13	13:30	[signature]	5-22-13	13:30
[signature]	5-22-13	16:30	[signature]	5-22-13	16:30
	- -	:	Sandra Hinde	5-22-13	16:38

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

5/17/2013 9:00:46 AM

Response to 1st RTP
CWLP - 02234

Electronic Filing: Received, Clerk's Office 01/29/2020

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ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 13050718

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5 GRAB	12	1 liter	G	10	AE	5/22/13	0900	7.46	1		X	X	X	X	X	X	X				05A
AP-5 GRAB	12	1 liter	P	1	AE	5/22/13	0900	7.46	1									X	X	X	05B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	5-22-13	13:30		5-22-13	13:30
	5-22-13	16:30	For Lab	5-22-13	16:38
Relinquished By:	- -	:	Received By:	5-22-13	16:38

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH Cal 7.00 = 7.00 @ 68.35°
Time = 08:32

5/17/2013 9:00:47 AM

Electronic Filing: Received, Clerk's Office 01/29/2020

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ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1305071X

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	4 oz	G	1	AE	5/22/13	0900	7.96	8		X										05 C
AP-5	GRAB	12	500 ml	P	1					4			X									05 D
AP-5	GRAB	12	500 ml	P	1					3				X								05 E
AP-5	GRAB	12	44 ml	V	3					5					X							05 F
AP-5	GRAB	12	44 ml	V	2					1						X						05 G

Relinquished By: Austin Green	Date: 5-22-13 Time: 13:30	Received By:	Date: 5-22-13 Time: 15:30	**EMT USE ONLY** ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: 5-22-13 Time: 16:30	Received By:	Date: 5-22-13 Time: 16:30	Jar Lot No.
Relinquished By:	Date: - - Time: : :	Received By: Sarah Kinde	Date: 5-22-13 Time: 16:30	☑ SAMPLE RECEIVED ON ICE ☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

5/17/2013 9:00:49 AM

Response to 1st RTP
CWLP - 02236

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13050718

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	1 liter	G	10	SJ	5/22/13	1110	7.63	1		X	X	X	X	X	X	X				06A
AW-3 GRAB	12	1 liter	P	1	SJ	5/22/13	1110	7.63	1									X	X	X	06B

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 5 -22 -13	Received By:	Date: 5 -22 -13
	Time: 16:30 :		Time: 16:30 :
Relinquished By:	Date: - -	Received By:	Date: 5-22-13
	Time: :		Time: 16:30 :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

pH: 7.00 = 7.01 @ 0845

Response to 1st RTP
CWLP - 02237

Electronic Filing: Received, Clerk's Office 01/29/2020

JP

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 05/17/2013
Due Date: 06/14/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505052

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 6260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 130507

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3	GRAB	12	4 oz	G	1		5/22/13	1110	7.63	8		X										0605
AW-3	GRAB	12	500 ml	P	1		5/22/13	1110	7.63	4			X									0606
AW-3	GRAB	12	500 ml	P	1		5/22/13	1110	7.63	3				X								0607
AW-3	GRAB	12	44 ml	V	3		5/22/13	1110	7.63	5					X							0608
AW-3	GRAB	12	44 ml	V	2		5/22/13	1110	7.63	1						X						0609

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 5 -22 13	Received By: for Int'l	Date: 5 -22 -13
	Time: 16 30 :		Time: 16 :50 :
Relinquished By:	Date: - -	Received By:	Date: 5 - 22 13
	Time: :		Time: 16:30 :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

pH: 7.00 = 7 7.01 @ 0845

5/17/2013 9:00:51 AM

Response to 1st RTP
CWLP - 02238

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

October 09, 2013

RE CWLP List G20

Lab Orders:
13080822

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 40 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: City, Water, Light & Power
Project: CWLP List G20
Lab Order: 13080822

Date: *10/9/2013*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: City, Water, Light & Power
Project: CWLP List G20
Lab Order: 13080822

Date: *10/9/2013*

CASE NARRATIVE

Analytical Comments for METHOD 6020_GRNDWTR_LIST, LCS-84491: The Se recovery in the standard level LCS was below the lab control limits and within limits for the low level LCS.

Analytical Comments for METHOD 6020_GRNDWTR_LIST, LCSLLMS-84491: The Zn recovery in the low level LCS was above the lab control limits and within limits for the standard level LCS.

Analytical Comments for METHOD 8270_wnew, 13080822-02A, 03A, 06A: Surrogate recoveries were below the limits.

Analytical Comments for METHOD RADIATION, 13080822-01A, 02A, 03A, 04A, 05A, 06A: The Radium-226/228 analysis by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

Sampling comments:
13080822-01B - Sample was obtained at 10:10am on September 16th, 2013.
13080822-02B - Sample was obtained at 9:40am on September 16th, 2013.
13080822-03B - Sample was obtained at 9:15am on September 16th, 2013.
13080822-04B - Sample was obtained at 8:55am on September 16th, 2013.
13080822-05B - Sample was obtained at 8:25am on September 16th, 2013.

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-01

Client Sample ID: AP-1
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.13		pH units	8/25/13 12:55	R191114	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	45.9	2.00	mg/L	9/16/13	R191602	GSB
Fluoride	< 0.500	0.500	mg/L	9/16/13	R191602	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500	mg/L	9/16/13	R191602	GSB
Sulfate	597	50.0	mg/L	9/16/13	R191602	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	9/5/13 12:09	84478	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1,380	10.0	mg/L	9/4/13 15:00	R191110	SL1
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	9/6/13 10:44	84542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	9/5/13 14:40	84491	AG
Arsenic	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Barium	0.639	0.0150	mg/L	9/5/13 14:40	84491	AG
Beryllium	< 0.00400	0.00400	mg/L	9/5/13 14:40	84491	AG
Boron	14.7	0.200	mg/L	9/5/13 14:40	84491	AG
Cadmium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Chromium	< 0.0100	0.0100	mg/L	9/5/13 14:40	84491	AG
Cobalt	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Copper	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Iron	25.8	0.140	mg/L	9/5/13 14:40	84491	AG
Lead	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Manganese	0.447	0.0100	mg/L	9/5/13 14:40	84491	AG
Nickel	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Selenium	0.00274	0.00250	mg/L	9/5/13 14:40	84491	AG
Silver	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Thallium	< 0.00200	0.00200	mg/L	9/5/13 14:40	84491	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-01

Client Sample ID: AP-1
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 0.0500	0.0500		mg/L	9/5/13 14:40	84491	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	9/9/13	R191240	LBI
Carbofuran	< 2.00	2.00	C	µg/L	9/9/13	R191240	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0402	0.0402	C	µg/L	9/6/13 12:15	84648	LP
1,2-Dibromoethane	< 0.0563	0.0563	C	µg/L	9/6/13 12:15	84648	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	9/6/13 19:33	84462	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	9/7/13 22:55	84555	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.132	0.132		µg/L	9/5/13 17:36	84354	LP
Atrazine	< 0.165	0.165		µg/L	9/5/13 17:36	84354	LP
Chlordane	< 0.198	0.198		µg/L	9/5/13 17:36	84354	LP
Endrin	< 0.0132	0.0132		µg/L	9/5/13 17:36	84354	LP
Heptachlor	< 0.0132	0.0132		µg/L	9/5/13 17:36	84354	LP
Heptachlor epoxide	< 0.0132	0.0132		µg/L	9/5/13 17:36	84354	LP
Methoxychlor	< 0.0132	0.0132		µg/L	9/5/13 17:36	84354	LP
Simazine	< 0.165	0.165		µg/L	9/5/13 17:36	84354	LP
Toxaphene	< 0.396	0.396		µg/L	9/5/13 17:36	84354	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0825	0.0825		µg/L	9/3/13	84400	NCH
Aroclor 1221	< 0.165	0.165		µg/L	9/3/13	84400	NCH
Aroclor 1232	< 0.0825	0.0825		µg/L	9/3/13	84400	NCH
Aroclor 1242	< 0.0825	0.0825		µg/L	9/3/13	84400	NCH
Aroclor 1248	< 0.0825	0.0825		µg/L	9/3/13	84400	NCH
Aroclor 1254	< 0.0825	0.0825		µg/L	9/3/13	84400	NCH
Aroclor 1260	< 0.0825	0.0825		µg/L	9/3/13	84400	NCH
PCB, Total	< 0.660	0.660		µg/L	9/3/13	84400	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-01

Client Sample ID: AP-1
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	9/3/13 11:22	84413	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	9/3/13 11:22	84413	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	9/3/13 11:22	84413	SJ1
Phenol	< 0.666	0.666		µg/L	9/3/13 11:22	84413	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.250	0.250		µg/L	9/9/13	84387	MNN
2,4-D	< 0.235	0.235		µg/L	9/9/13	84387	MNN
Dinoseb	< 0.220	0.220		µg/L	9/9/13	84387	MNN
Pentachlorophenol	< 0.265	0.265	C	µg/L	9/9/13	84387	MNN
Picloram	< 0.217	0.217	C	µg/L	9/9/13	84387	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
1,1,2-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
1,1-Dichloroethene	< 0.800	0.800		µg/L	9/6/13 00:32	84518	JL
1,2,4-Trichlorobenzene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
1,2-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
1,2-Dichloroethane	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
1,2-Dichloropropane	< 0.800	0.800		µg/L	9/6/13 00:32	84518	JL
1,4-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Benzene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Carbon tetrachloride	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Chlorobenzene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
cis-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Ethylbenzene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Methyl tert-butyl ether	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Methylene chloride	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Styrene	< 0.800	0.800		µg/L	9/6/13 00:32	84518	JL
Tetrachloroethene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Toluene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
trans-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Trichloroethene	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL
Vinyl chloride	< 0.400	0.400		µg/L	9/6/13 00:32	84518	JL

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Lab Order:	13080822	**Report Date:**	10/9/2013
Project:	CWLP List G20	**Collection Date:**	8/28/2013 12:55:00 PM
Lab ID:	13080822-01	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 0.800	0.800	µg/L	9/6/13 00:32	84518	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.94	0.2	pCi/L	9/23/13	R192426	OUT
Radium-228	0.64	0.52	pCi/L	9/23/13	R192426	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-02

Client Sample ID: AP-2
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:10:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.94		pH units	8/25/13 12:10	R191114	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	18.9	2.00	mg/L	9/16/13	R191602	GSB
Fluoride	0.523	0.500	mg/L	9/16/13	R191602	GSB
Nitrogen, Nitrate (As N)	0.534	0.500	mg/L	9/16/13	R191602	GSB
Sulfate	280	5.00	mg/L	9/16/13	R191602	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	9/5/13 12:09	84478	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1,000	10.0	mg/L	9/4/13 15:00	R191110	SL1
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	9/6/13 10:44	84542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	9/5/13 14:40	84491	AG
Arsenic	0.0224	0.0150	mg/L	9/5/13 14:40	84491	AG
Barium	0.282	0.0150	mg/L	9/5/13 14:40	84491	AG
Beryllium	< 0.00400	0.00400	mg/L	9/5/13 14:40	84491	AG
Boron	5.46	0.0200	mg/L	9/5/13 14:40	84491	AG
Cadmium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Chromium	0.0180	0.0100	mg/L	9/5/13 14:40	84491	AG
Cobalt	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Copper	0.0141	0.00750	mg/L	9/5/13 14:40	84491	AG
Iron	25.1	0.140	mg/L	9/5/13 14:40	84491	AG
Lead	0.0104	0.00500	mg/L	9/5/13 14:40	84491	AG
Manganese	20.4	0.100	mg/L	9/5/13 14:40	84491	AG
Nickel	0.0188	0.00750	mg/L	9/5/13 14:40	84491	AG
Selenium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Silver	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Thallium	< 0.00200	0.00200	mg/L	9/5/13 14:40	84491	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-02

Client Sample ID: AP-2
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:10:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 0.0500	0.0500		mg/L	9/5/13 14:40	84491	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	9/9/13	R191240	LBI
Carbofuran	< 2.00	2.00	C	µg/L	9/9/13	R191240	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0397	0.0397	C	µg/L	9/6/13 12:46	84648	LP
1,2-Dibromoethane	< 0.0555	0.0555	C	µg/L	9/6/13 12:46	84648	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	9/6/13 20:17	84462	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	9/7/13 23:38	84555	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	9/5/13 18:23	84354	LP
Atrazine	< 0.166	0.166		µg/L	9/5/13 18:23	84354	LP
Chlordane	< 0.199	0.199		µg/L	9/5/13 18:23	84354	LP
Endrin	< 0.0133	0.0133		µg/L	9/5/13 18:23	84354	LP
Heptachlor	< 0.0133	0.0133		µg/L	9/5/13 18:23	84354	LP
Heptachlor epoxide	< 0.0133	0.0133		µg/L	9/5/13 18:23	84354	LP
Methoxychlor	< 0.0133	0.0133		µg/L	9/5/13 18:23	84354	LP
Simazine	< 0.166	0.166		µg/L	9/5/13 18:23	84354	LP
Toxaphene	< 0.398	0.398		µg/L	9/5/13 18:23	84354	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0828	0.0828		µg/L	9/3/13	84400	NCH
Aroclor 1221	< 0.166	0.166		µg/L	9/3/13	84400	NCH
Aroclor 1232	< 0.0828	0.0828		µg/L	9/3/13	84400	NCH
Aroclor 1242	< 0.0828	0.0828		µg/L	9/3/13	84400	NCH
Aroclor 1248	< 0.0828	0.0828		µg/L	9/3/13	84400	NCH
Aroclor 1254	< 0.0828	0.0828		µg/L	9/3/13	84400	NCH
Aroclor 1260	< 0.0828	0.0828		µg/L	9/3/13	84400	NCH
PCB, Total	< 0.663	0.663		µg/L	9/3/13	84400	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-02

Client Sample ID: AP-2
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:10:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.32	1.32		µg/L	9/3/13 12:04	84413	SJ1
Bis(2-ethylhexyl)phthalate	< 1.32	1.32		µg/L	9/3/13 12:04	84413	SJ1
Hexachlorocyclopentadiene	< 1.32	1.32		µg/L	9/3/13 12:04	84413	SJ1
Phenol	< 0.662	0.662		µg/L	9/3/13 12:04	84413	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	9/9/13	84387	MNN
2,4-D	< 0.234	0.234		µg/L	9/9/13	84387	MNN
Dinoseb	< 0.219	0.219		µg/L	9/9/13	84387	MNN
Pentachlorophenol	< 0.264	0.264	C	µg/L	9/9/13	84387	MNN
Picloram	< 0.215	0.215	C	µg/L	9/9/13	84387	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
1,1,2-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
1,1-Dichloroethene	< 0.800	0.800		µg/L	9/6/13 01:02	84518	JL
1,2,4-Trichlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
1,2-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
1,2-Dichloroethane	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
1,2-Dichloropropane	< 0.800	0.800		µg/L	9/6/13 01:02	84518	JL
1,4-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Benzene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Carbon tetrachloride	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Chlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
cis-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Ethylbenzene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Methyl tert-butyl ether	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Methylene chloride	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Styrene	< 0.800	0.800		µg/L	9/6/13 01:02	84518	JL
Tetrachloroethene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Toluene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
trans-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Trichloroethene	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL
Vinyl chloride	< 0.400	0.400		µg/L	9/6/13 01:02	84518	JL

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-02

Client Sample ID: AP-2
Report Date: 10/9/2013
Collection Date: 8/28/2013 12:10:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 0.800	0.800	µg/L	9/6/13 01:02	84518	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.66	0.26	pCi/L	9/23/13	R192426	OUT
Radium-228	ND	0.63	pCi/L	9/23/13	R192426	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-03

Client Sample ID: AP-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.98		pH units	8/25/13 11:10	R191114	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	43.4	2.00	mg/L	9/16/13	R191602	GSB
Fluoride	< 0.500	0.500	mg/L	9/16/13	R191602	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500	mg/L	9/16/13	R191602	GSB
Sulfate	353	50.0	mg/L	9/16/13	R191602	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	9/5/13 12:09	84478	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	992	10.0	mg/L	9/4/13 15:00	R191110	SL1
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	9/6/13 10:44	84542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	9/5/13 14:40	84491	AG
Arsenic	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Barium	0.125	0.0150	mg/L	9/5/13 14:40	84491	AG
Beryllium	< 0.00400	0.00400	mg/L	9/5/13 14:40	84491	AG
Boron	21.3	0.200	mg/L	9/5/13 14:40	84491	AG
Cadmium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Chromium	< 0.0100	0.0100	mg/L	9/5/13 14:40	84491	AG
Cobalt	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Copper	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Iron	12.2	0.140	mg/L	9/5/13 14:40	84491	AG
Lead	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Manganese	7.61	0.0100	mg/L	9/5/13 14:40	84491	AG
Nickel	0.00833	0.00750	mg/L	9/5/13 14:40	84491	AG
Selenium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Silver	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Thallium	< 0.00200	0.00200	mg/L	9/5/13 14:40	84491	AG

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-03

Client Sample ID: AP-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 0.0500	0.0500		mg/L	9/5/13 14:40	84491	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	9/9/13	R191240	LBI
Carbofuran	< 2.00	2.00	C	µg/L	9/9/13	R191240	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0394	0.0394	C	µg/L	9/6/13 13:51	84648	LP
1,2-Dibromoethane	< 0.0552	0.0552	C	µg/L	9/6/13 13:51	84648	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	9/6/13 21:01	84462	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	9/8/13 00:21	84555	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	9/5/13 19:11	84354	LP
Atrazine	< 0.166	0.166		µg/L	9/5/13 19:11	84354	LP
Chlordane	< 0.199	0.199		µg/L	9/5/13 19:11	84354	LP
Endrin	< 0.0133	0.0133		µg/L	9/5/13 19:11	84354	LP
Heptachlor	< 0.0133	0.0133		µg/L	9/5/13 19:11	84354	LP
Heptachlor epoxide	< 0.0133	0.0133		µg/L	9/5/13 19:11	84354	LP
Methoxychlor	< 0.0133	0.0133		µg/L	9/5/13 19:11	84354	LP
Simazine	< 0.166	0.166		µg/L	9/5/13 19:11	84354	LP
Toxaphene	< 0.398	0.398		µg/L	9/5/13 19:11	84354	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1221	< 0.166	0.166		µg/L	9/3/13	84400	NCH
Aroclor 1232	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1242	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1248	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1254	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1260	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
PCB, Total	< 0.664	0.664		µg/L	9/3/13	84400	NCH

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-03

Client Sample ID: AP-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 11:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	9/3/13 12:45	84413	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	9/3/13 12:45	84413	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	9/3/13 12:45	84413	SJ1
Phenol	< 0.665	0.665		µg/L	9/3/13 12:45	84413	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.250	0.250		µg/L	9/9/13	84387	MNN
2,4-D	< 0.235	0.235		µg/L	9/9/13	84387	MNN
Dinoseb	< 0.220	0.220		µg/L	9/9/13	84387	MNN
Pentachlorophenol	< 0.265	0.265	C	µg/L	9/9/13	84387	MNN
Picloram	< 0.216	0.216	C	µg/L	9/9/13	84387	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
1,1,2-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
1,1-Dichloroethene	< 0.800	0.800		µg/L	9/6/13 01:32	84518	JL
1,2,4-Trichlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
1,2-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
1,2-Dichloroethane	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
1,2-Dichloropropane	< 0.800	0.800		µg/L	9/6/13 01:32	84518	JL
1,4-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Benzene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Carbon tetrachloride	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Chlorobenzene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
cis-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Ethylbenzene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Methyl tert-butyl ether	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Methylene chloride	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Styrene	< 0.800	0.800		µg/L	9/6/13 01:32	84518	JL
Tetrachloroethene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Toluene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
trans-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Trichloroethene	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL
Vinyl chloride	< 0.400	0.400		µg/L	9/6/13 01:32	84518	JL

Qualifiers:

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Lab Order:	13080822	**Report Date:**	10/9/2013
Project:	CWLP List G20	**Collection Date:**	8/28/2013 11:10:00 AM
Lab ID:	13080822-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 0.800	0.800	µg/L	9/6/13 01:32	84518	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.32	pCi/L	9/23/13	R192426	OUT
Radium-228	ND	0.66	pCi/L	9/23/13	R192426	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-04

Client Sample ID: AP-4
Report Date: 10/9/2013
Collection Date: 8/28/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.04		pH units	8/25/13 10:30	R191114	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	10.7	2.00	mg/L	9/16/13	R191602	GSB
Fluoride	< 0.500	0.500	mg/L	9/16/13	R191602	GSB
Nitrogen, Nitrate (As N)	< 0.0500	0.0500	mg/L	9/16/13	R191602	GSB
Sulfate	< 5.00	5.00	mg/L	9/16/13	R191602	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	9/10/13 11:40	84590	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	548	10.0	mg/L	9/4/13 15:00	R191110	SL1
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	9/6/13 10:44	84542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	9/5/13 14:40	84491	AG
Arsenic	0.0193	0.0150	mg/L	9/5/13 14:40	84491	AG
Barium	0.385	0.0150	mg/L	9/5/13 14:40	84491	AG
Beryllium	< 0.00400	0.00400	mg/L	9/5/13 14:40	84491	AG
Boron	0.665	0.0200	mg/L	9/5/13 14:40	84491	AG
Cadmium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Chromium	< 0.0100	0.0100	mg/L	9/5/13 14:40	84491	AG
Cobalt	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Copper	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Iron	12.8	0.140	mg/L	9/5/13 14:40	84491	AG
Lead	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Manganese	0.379	0.0100	mg/L	9/5/13 14:40	84491	AG
Nickel	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Selenium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Silver	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Thallium	< 0.00200	0.00200	mg/L	9/5/13 14:40	84491	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-04

Client Sample ID: AP-4
Report Date: 10/9/2013
Collection Date: 8/28/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 0.0500	0.0500		mg/L	9/5/13 14:40	84491	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	9/10/13	R191291	LBI
Carbofuran	< 2.00	2.00	C	µg/L	9/10/13	R191291	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0398	0.0398	C	µg/L	9/6/13 14:24	84648	LP
1,2-Dibromoethane	< 0.0557	0.0557	C	µg/L	9/6/13 14:24	84648	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	9/6/13 21:45	84462	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	9/7/13 20:45	84555	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	9/5/13 19:58	84354	LP
Atrazine	< 0.166	0.166		µg/L	9/5/13 19:58	84354	LP
Chlordane	< 0.199	0.199		µg/L	9/5/13 19:58	84354	LP
Endrin	< 0.0133	0.0133		µg/L	9/5/13 19:58	84354	LP
Heptachlor	< 0.0133	0.0133		µg/L	9/5/13 19:58	84354	LP
Heptachlor epoxide	< 0.0133	0.0133		µg/L	9/5/13 19:58	84354	LP
Methoxychlor	< 0.0133	0.0133		µg/L	9/5/13 19:58	84354	LP
Simazine	< 0.166	0.166		µg/L	9/5/13 19:58	84354	LP
Toxaphene	< 0.398	0.398		µg/L	9/5/13 19:58	84354	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1221	< 0.166	0.166		µg/L	9/3/13	84400	NCH
Aroclor 1232	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1242	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1248	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1254	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
Aroclor 1260	< 0.0830	0.0830		µg/L	9/3/13	84400	NCH
PCB, Total	< 0.664	0.664		µg/L	9/3/13	84400	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-04

Client Sample ID: AP-4
Report Date: 10/9/2013
Collection Date: 8/28/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	9/3/13 13:27	84413	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	9/3/13 13:27	84413	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	9/3/13 13:27	84413	SJ1
Phenol	< 0.667	0.667		µg/L	9/3/13 13:27	84413	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.247	0.247		µg/L	9/9/13	84387	MNN
2,4-D	< 0.232	0.232		µg/L	9/9/13	84387	MNN
Dinoseb	< 0.218	0.218		µg/L	9/9/13	84387	MNN
Pentachlorophenol	< 0.262	0.262	C	µg/L	9/9/13	84387	MNN
Picloram	< 0.214	0.214	C	µg/L	9/9/13	84387	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
1,1,2-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
1,1-Dichloroethene	< 0.800	0.800		µg/L	9/6/13 02:02	84518	JL
1,2,4-Trichlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
1,2-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
1,2-Dichloroethane	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
1,2-Dichloropropane	< 0.800	0.800		µg/L	9/6/13 02:02	84518	JL
1,4-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Benzene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Carbon tetrachloride	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Chlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
cis-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Ethylbenzene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Methyl tert-butyl ether	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Methylene chloride	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Styrene	< 0.800	0.800		µg/L	9/6/13 02:02	84518	JL
Tetrachloroethene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Toluene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
trans-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Trichloroethene	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL
Vinyl chloride	< 0.400	0.400		µg/L	9/6/13 02:02	84518	JL

Qualifiers:

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Lab Order:	13080822	**Report Date:**	10/9/2013
Project:	CWLP List G20	**Collection Date:**	8/28/2013 10:30:00 AM
Lab ID:	13080822-04	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 0.800	0.800	µg/L	9/6/13 02:02	84518	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.57	pCi/L	9/23/13	R192426	OUT
Radium-228	ND	1.4	pCi/L	9/23/13	R192426	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AP-5
Lab Order: 13080822
Report Date: 10/9/2013
Project: CWLP List G20
Collection Date: 8/28/2013 9:40:00 AM
Lab ID: 13080822-05
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.15		pH units	8/25/13 09:40	R191114	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	1.95	0.200	mg/L	9/16/13	R191602	GSB
Fluoride	< 0.500	0.500	mg/L	9/16/13	R191602	GSB
Nitrogen, Nitrate (As N)	1.03	0.500	mg/L	9/16/13	R191602	GSB
Sulfate	66.8	5.00	mg/L	9/16/13	R191602	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	9/10/13 11:40	84590	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	428	10.0	mg/L	9/4/13 15:00	R191110	SL1
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	9/6/13 10:44	84542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	9/5/13 14:40	84491	AG
Arsenic	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Barium	0.228	0.0150	mg/L	9/5/13 14:40	84491	AG
Beryllium	< 0.00400	0.00400	mg/L	9/5/13 14:40	84491	AG
Boron	0.0954	0.0200	mg/L	9/5/13 14:40	84491	AG
Cadmium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Chromium	0.0431	0.0100	mg/L	9/5/13 14:40	84491	AG
Cobalt	0.0223	0.0150	mg/L	9/5/13 14:40	84491	AG
Copper	0.0341	0.00750	mg/L	9/5/13 14:40	84491	AG
Iron	49.4	0.140	mg/L	9/5/13 14:40	84491	AG
Lead	0.0312	0.00500	mg/L	9/5/13 14:40	84491	AG
Manganese	1.05	0.0100	mg/L	9/5/13 14:40	84491	AG
Nickel	0.0566	0.00750	mg/L	9/5/13 14:40	84491	AG
Selenium	0.00523	0.00250	mg/L	9/5/13 14:40	84491	AG
Silver	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Thallium	< 0.00200	0.00200	mg/L	9/5/13 14:40	84491	AG

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-05

Client Sample ID: AP-5
Report Date: 10/9/2013
Collection Date: 8/28/2013 9:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	0.109	0.0500		mg/L	9/5/13 14:40	84491	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	9/10/13	R191291	LBI
Carbofuran	< 2.00	2.00	C	µg/L	9/10/13	R191291	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0397	0.0397	C	µg/L	9/6/13 14:55	84648	LP
1,2-Dibromoethane	< 0.0555	0.0555	C	µg/L	9/6/13 14:55	84648	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	9/7/13 00:40	84462	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	9/8/13 01:04	84555	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.132	0.132		µg/L	9/5/13 20:45	84354	LP
Atrazine	< 0.164	0.164		µg/L	9/5/13 20:45	84354	LP
Chlordane	< 0.197	0.197		µg/L	9/5/13 20:45	84354	LP
Endrin	< 0.0132	0.0132		µg/L	9/5/13 20:45	84354	LP
Heptachlor	< 0.0132	0.0132		µg/L	9/5/13 20:45	84354	LP
Heptachlor epoxide	< 0.0132	0.0132		µg/L	9/5/13 20:45	84354	LP
Methoxychlor	< 0.0132	0.0132		µg/L	9/5/13 20:45	84354	LP
Simazine	< 0.164	0.164		µg/L	9/5/13 20:45	84354	LP
Toxaphene	< 0.395	0.395		µg/L	9/5/13 20:45	84354	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0822	0.0822		µg/L	9/3/13	84400	NCH
Aroclor 1221	< 0.164	0.164		µg/L	9/3/13	84400	NCH
Aroclor 1232	< 0.0822	0.0822		µg/L	9/3/13	84400	NCH
Aroclor 1242	< 0.0822	0.0822		µg/L	9/3/13	84400	NCH
Aroclor 1248	< 0.0822	0.0822		µg/L	9/3/13	84400	NCH
Aroclor 1254	< 0.0822	0.0822		µg/L	9/3/13	84400	NCH
Aroclor 1260	< 0.0822	0.0822		µg/L	9/3/13	84400	NCH
PCB, Total	< 0.658	0.658		µg/L	9/3/13	84400	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-05

Client Sample ID: AP-5
Report Date: 10/9/2013
Collection Date: 8/28/2013 9:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	9/3/13 14:09	84413	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	9/3/13 14:09	84413	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	9/3/13 14:09	84413	SJ1
Phenol	< 0.664	0.664		µg/L	9/3/13 14:09	84413	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.248	0.248		µg/L	9/9/13	84387	MNN
2,4-D	< 0.233	0.233		µg/L	9/9/13	84387	MNN
Dinoseb	< 0.218	0.218		µg/L	9/9/13	84387	MNN
Pentachlorophenol	< 0.263	0.263	C	µg/L	9/9/13	84387	MNN
Picloram	< 0.215	0.215	C	µg/L	9/9/13	84387	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
1,1,2-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
1,1-Dichloroethene	< 0.800	0.800		µg/L	9/6/13 02:32	84518	JL
1,2,4-Trichlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
1,2-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
1,2-Dichloroethane	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
1,2-Dichloropropane	< 0.800	0.800		µg/L	9/6/13 02:32	84518	JL
1,4-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Benzene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Carbon tetrachloride	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Chlorobenzene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
cis-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Ethylbenzene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Methyl tert-butyl ether	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Methylene chloride	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Styrene	< 0.800	0.800		µg/L	9/6/13 02:32	84518	JL
Tetrachloroethene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Toluene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
trans-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Trichloroethene	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL
Vinyl chloride	< 0.400	0.400		µg/L	9/6/13 02:32	84518	JL

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Lab Order:	13080822	**Report Date:**	10/9/2013
Project:	CWLP List G20	**Collection Date:**	8/28/2013 9:40:00 AM
Lab ID:	13080822-05	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 0.800	0.800	µg/L	9/6/13 02:32	84518	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.	0.3	pCi/L	9/23/13	R192426	OUT
Radium-228	0.81	0.52	pCi/L	9/23/13	R192426	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-06

Client Sample ID: AW-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.30		pH units	8/25/13 13:45	R191114	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	27.8	2.00	mg/L	9/16/13	R191602	GSB
Fluoride	< 0.500	0.500	mg/L	9/16/13	R191602	GSB
Nitrogen, Nitrate (As N)	0.551	0.500	mg/L	9/16/13	R191602	GSB
Sulfate	25.8	5.00	mg/L	9/16/13	R191602	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	9/10/13 11:40	84590	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	652	10.0	mg/L	9/4/13 15:00	R191110	SL1
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	9/6/13 10:44	84542	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	9/5/13 14:40	84491	AG
Arsenic	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Barium	0.0843	0.0150	mg/L	9/5/13 14:40	84491	AG
Beryllium	< 0.00400	0.00400	mg/L	9/5/13 14:40	84491	AG
Boron	0.187	0.0200	mg/L	9/5/13 14:40	84491	AG
Cadmium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Chromium	< 0.0100	0.0100	mg/L	9/5/13 14:40	84491	AG
Cobalt	< 0.0150	0.0150	mg/L	9/5/13 14:40	84491	AG
Copper	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Iron	1.08	0.140	mg/L	9/5/13 14:40	84491	AG
Lead	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Manganese	0.0460	0.0100	mg/L	9/5/13 14:40	84491	AG
Nickel	< 0.00750	0.00750	mg/L	9/5/13 14:40	84491	AG
Selenium	< 0.00250	0.00250	mg/L	9/5/13 14:40	84491	AG
Silver	< 0.00500	0.00500	mg/L	9/5/13 14:40	84491	AG
Thallium	< 0.00200	0.00200	mg/L	9/5/13 14:40	84491	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-06

Client Sample ID: AW-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 0.0500	0.0500		mg/L	9/5/13 14:40	84491	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	9/10/13	R191291	LBI
Carbofuran	< 2.00	2.00	C	µg/L	9/10/13	R191291	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0395	0.0395	C	µg/L	9/6/13 15:26	84648	LP
1,2-Dibromoethane	< 0.0554	0.0554	C	µg/L	9/6/13 15:26	84648	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	9/7/13 01:24	84462	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	9/8/13 01:47	84555	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	9/5/13 21:32	84354	LP
Atrazine	< 0.166	0.166		µg/L	9/5/13 21:32	84354	LP
Chlordane	< 0.199	0.199		µg/L	9/5/13 21:32	84354	LP
Endrin	< 0.0133	0.0133		µg/L	9/5/13 21:32	84354	LP
Heptachlor	< 0.0133	0.0133		µg/L	9/5/13 21:32	84354	LP
Heptachlor epoxide	< 0.0133	0.0133		µg/L	9/5/13 21:32	84354	LP
Methoxychlor	< 0.0133	0.0133		µg/L	9/5/13 21:32	84354	LP
Simazine	< 0.166	0.166		µg/L	9/5/13 21:32	84354	LP
Toxaphene	< 0.399	0.399		µg/L	9/5/13 21:32	84354	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.0831	0.0831		µg/L	9/3/13	84400	NCH
Aroclor 1221	< 0.166	0.166		µg/L	9/3/13	84400	NCH
Aroclor 1232	< 0.0831	0.0831		µg/L	9/3/13	84400	NCH
Aroclor 1242	< 0.0831	0.0831		µg/L	9/3/13	84400	NCH
Aroclor 1248	< 0.0831	0.0831		µg/L	9/3/13	84400	NCH
Aroclor 1254	< 0.0831	0.0831		µg/L	9/3/13	84400	NCH
Aroclor 1260	< 0.0831	0.0831		µg/L	9/3/13	84400	NCH
PCB, Total	< 0.665	0.665		µg/L	9/3/13	84400	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-06

Client Sample ID: AW-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	9/3/13 14:53	84413	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	9/3/13 14:53	84413	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	9/3/13 14:53	84413	SJ1
Phenol	< 0.666	0.666		µg/L	9/3/13 14:53	84413	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	9/9/13	84387	MNN
2,4-D	< 0.234	0.234		µg/L	9/9/13	84387	MNN
Dinoseb	< 0.219	0.219		µg/L	9/9/13	84387	MNN
Pentachlorophenol	< 0.263	0.263	C	µg/L	9/9/13	84387	MNN
Picloram	< 0.215	0.215	C	µg/L	9/9/13	84387	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
1,1,2-Trichloroethane	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
1,1-Dichloroethene	< 0.800	0.800		µg/L	9/6/13 03:02	84518	JL
1,2,4-Trichlorobenzene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
1,2-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
1,2-Dichloroethane	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
1,2-Dichloropropane	< 0.800	0.800		µg/L	9/6/13 03:02	84518	JL
1,4-Dichlorobenzene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Benzene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Carbon tetrachloride	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Chlorobenzene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
cis-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Ethylbenzene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Methyl tert-butyl ether	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Methylene chloride	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Styrene	< 0.800	0.800		µg/L	9/6/13 03:02	84518	JL
Tetrachloroethene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Toluene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
trans-1,2-Dichloroethene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Trichloroethene	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL
Vinyl chloride	< 0.400	0.400		µg/L	9/6/13 03:02	84518	JL

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13080822
Project: CWLP List G20
Lab ID: 13080822-06

Client Sample ID: AW-3
Report Date: 10/9/2013
Collection Date: 8/28/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Xylenes, Total	< 0.800	0.800	µg/L	9/6/13 03:02	84518	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.26	pCi/L	9/23/13	R192426	OUT
Radium-228	0.77	0.77	pCi/L	9/23/13	R192426	OUT

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Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER #1308033

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1 GRAB	12	1 liter	G	10		8/25/13	12:55	7.13	1		X	X	X	X	X	X	X				01A
AP-1 GRAB	12	1 liter	P	1		↓	↓	↓	1									X	X	X	01B

Relinquished By:	Date: 8-29-13 Time: 17:00	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By: Sandra Mule	Date: 8-29-13 Time: 1700

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 3

SPECIAL INSTRUCTIONS:

8/14/2013 11:19:56 AM

Response to 1st RTP
CWLP - 02266

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1308822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	4 oz	G	1		8/29/13	12:55	7.13	8		X										OK
AP-1	GRAB	12	500 ml	P	1					4			X									D
AP-1	GRAB	12	500 ml	P	1					3				X								E
AP-1	GRAB	12	44 ml	V	3					5					X							F
AP-1	GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date: 8-29-13 Time: 17:00	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: 8 29 13 Time: 17:08

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:

pH 7.00 @ 22.2°F
Time: 09:15

8/14/2013 11:19:57 AM

Response to 1st RTP
CWLP - 02267

29

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1308822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	1 liter	G	10		8/28/13	12:10	6.94	1		X		X	X	X	X	X				02A
AP-2	GRAB	12	1 liter	P	1		↓	↓	↓	1									X	X	X	02B

Relinquished By:	Date: 8-29-13 Time: 1700	Received By:	Date: - - Time: :	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	Jar Lot No.
Relinquished By:	Date: - - Time: :	Received By: Sandra Hurle	Date: 8-29-13 Time: 17:08	☑ SAMPLE RECEIVED ON ICE ☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:
pH 7.00 @ 82.2°F
Time: 09:15

8/14/2013 11:19:57 AM

Response to 1st RTP
CWLP - 02268

30

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1360822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	4 oz	G	1		8/28/13	12:10	6.94	8		X										02C
AP-2	GRAB	12	500 ml	P	1					4			X									02D
AP-2	GRAB	12	500 ml	P	1					3				X								02E
AP-2	GRAB	12	44 ml	V	3					5					X							02F
AP-2	GRAB	12	44 ml	V	2					1						X						02G

Relinquished By:	Date: 8-29-13 Time: 17:00	Received By:	Date: - - Time: : :	**EMT USE ONLY** ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	
Relinquished By:	Date: - - Time: : :	Received By:	Date: 8 29 13 Time: 1700 :	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:

8/14/2013 11:19:57 AM

Response to 1st RTP
CWLP - 02269

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1360822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	1 liter	G	10		8/28/13	11:10	6.98	1		X	X	X	X	X	X	X				03A
AP-3	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓B

Relinquished By:	Date: 8-29-13 Time: 17:00	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By: Sandra Adale	Date: 8-29-13 Time: 17:00	Jar Lot No.

☒ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:

8/14/2013 11:19:57 AM

Response to 1st RTP
CWLP - 02270

32

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1308822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	4 oz	G	1		8/28/13	11:10	6.98	8		X										03C
AP-3	GRAB	12	500 ml	P	1					4			X									D
AP-3	GRAB	12	500 ml	P	1					3				X								E
AP-3	GRAB	12	44 ml	V	3					5					X							F
AP-3	GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date: 8-29-13 Time: 1700	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By: Sandra Wade	Date: 8-29-13 Time: 1700

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS: pH 7.00 @ 82.2°F Time: 09:15

8/14/2013 11:19:58 AM

Response to 1st RTP
CWLP - 02271

33

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1380822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	1 liter	G	10		8/28/13	10:30	7.04	1		X	X	X	X	X	X	X				04A
AP-4	GRAB	12	1 liter	P	1					1									X	X	X	04B

Relinquished By:	Date: 8-28-13 Time: 13:00	Received By:	Date: 8-28-13 Time: 13:00	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	
Relinquished By:	Date: - - Time: : :	Received By:	Date: 8-28-13 Time: 18:15	Jar Lot No.

☒ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS: pH 7.00 = 7.00 @ 82.2°F
Time = 09:15

8/14/2013 11:19:58 AM

Response to 1st RTP
CWLP - 02272

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER #130808-20

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	Analysis 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	4 oz	G	1		8/28/13	10:30	7.04	8		X										04C
AP-4	GRAB	12	500 ml	P	1					4			X									D
AP-4	GRAB	12	500 ml	P	1					3				X								E
AP-4	GRAB	12	44 ml	V	3					5					X							F
AP-4	GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	8-28-13	13 :		8-28-13	13 :
Relinquished By:	Date: - -	Time: :	Received By:	Date: - -	Time: :
Relinquished By:	Date: - -	Time: :	Received By:	Date: 8-28-13	Time: 18 15 :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:

8/14/2013 11:19:58 AM

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1308022

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	1 liter	G	10		8/28/13	09:40	7.15	1		X	X	X	X	X	X	X				05A
AP-5	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓B

Relinquished By	Date	Time	Received By	Date	Time
[signature]	8-28-13	13:00	[signature]	8-28-13	13:00
Relinquished By:	- -	:	Received By:	- -	:
Relinquished By:	- -	:	Received By:	8-28-13	18:15

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt)

SPECIAL INSTRUCTIONS:
pH 7.00 = 7.00 @ 82.2°F
Time = 09:15

8/14/2013 11:19:59 AM

Response to 1st RTP
CWLP - 02274

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 1308082

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	4 oz	G	1	[illegible]	8/28/13	9:40	7.15	8		X										05C
AP-5	GRAB	12	500 ml	P	1	"	"	"	"	4			X									D
AP-5	GRAB	12	500 ml	P	1	"	"	"	"	3				X								E
AP-5	GRAB	12	44 ml	V	3	"	"	"	"	5					X							F
AP-5	GRAB	12	44 ml	V	2	"	"	"	"	1						X						G

Relinquished By:	Date: 8-28-13 Time: 13:00	Received By:	Date: 8-28-13 Time: 13:00	EMT USE ONLY
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: :	Received By:	Date: 8-28-13 Time: 18:15	Jar Lot No.

☒ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 1

SPECIAL INSTRUCTIONS:

8/14/2013 11:19:59 AM

Response to 1st RTP
CWLP - 02275

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ **Proj. #:** _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER #1306822

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3	GRAB	12	1 liter	G	10	SG	8/28/13	1345	7.30	1		X	X	X	X	X	X	X				06A
AW-3	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓ B

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 8-29-13	Received By:	Date: 8-29-13
	Time: 14:00		Time: 1400
Relinquished By:	Date: 8-29-13	Received By:	Date: 8-29-13
	Time: 17:00		Time: 1708

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:

8/14/2013 11:19:59 AM

Response to 1st RTP
CWLP - 02276

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 08/14/2013
Due Date: 08/30/2013

COC # 505103

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H_2SO_4 3. HNO_3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. $Na_2S_2O_3$ 9. $NaHSO_4$
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 13080822

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	4 oz	G	1	CG	8/29/13	1345	7.30	8		X										060
AW-3 GRAB	12	500 ml	P	1					4			X									D
AW-3 GRAB	12	500 ml	P	1					3				X								E
AW-3 GRAB	12	44 ml	V	3					5					X							F
AW-3 GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date: - -	Received By:	Date: - -
	Time: :		Time: :
Relinquished By:	Date: 8-29-13	Received By:	Date: 8-29-13
	Time: 17:00		Time: 14:00
Relinquished By:	Date: 8-29-13	Received By:	Date: 8-30-13
	Time: 17:00		Time: 12:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☒ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:
pH - 7.00 = 7.01 @ 0925

8/14/2013 11:20:00 AM

Response to 1st RTP
CWLP - 02277

Electronic Filing: Received, Clerk's Office 01/29/2020

JT

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8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6666
FAX: 847-967-6735
www.emt.com

Chain of Custody Record

TURNARAOUND TIME:
☐ RUSH
____ day turnaround
☐ ROUTINE

Due Date: ____-____-____ COC #: 125300

Company: CWLP
Address: 201 E Lake Shore Dr.
Springfield IL

Phone #: (217) 757-8610 Fax #: (____) ____-____
P.O. #: ____ Proj. #: ____-____
Client Contact: Sue Corcoran
Project ID / Location: CWLP FGDS / CWLP Springfield

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater ____

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag ____

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H_2SO_4 5. HCl 8. Other
3. HNO_3 6. MeOH ____

Analyses

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Sampling Temp.	Preservation Field	Preservation Lab	Total Nitrate	EMT USE ONLY
AP-5	G	PT	P	1	SP	9/16/13	0825	6.95	56.2	1		X	05B
AP-4	G	PT	P	1	SP	9/16/13	0855	7.08	64.6	1		X	04B
AP-3	G	PT	P	1	SP	9/16/13	0915	7.01	63.7	1		X	03B
AP-2	G	PT	P	1	SP	9/16/13	0940	6.91	64.8	1		X	02B
AP-1	G	PT	P	1	SP	9/16/13	1010	7.01	60.2	1		X	01B

EMT WORKORDER # 1308822

Relinquished By: 40	Date: - - Time: :	Received By:	Date: - - Time: :	EMT USE ONLY Client Code: Spring	☒ SAMPLE RECEIVED ON ICE
Relinquished By:	Date: 9-16-13 Time: 10:30	Received By:	Date: 9-16-13 Time: 10:30	EMT Project I.D. CWLP FGDS Routine GW	☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) 2
Relinquished By:	Date: 9-16-13 Time: 16:08	Received For Lab By:	Date: 9-16-13 Time: 16:05	Jar Lot No.	EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: pH: 7.00 → 7.02 @ 0805

Response to 1st RTP
CWLP - 02278

Electronic Filing: Received, Clerk's Office 01/29/2020

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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

January 06, 2014

RE CWLP 4Q13 List G20

Lab Orders:
13110665

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Joe Pavilonis
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 39 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

Electronic Filing: Received, Clerk's Office 01/29/2020

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CLIENT: City, Water, Light & Power

Project: CWLP 4Q13 List G20

Lab Order: 13110665

Date: *1/6/2014*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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CLIENT: City, Water, Light & Power
Project: CWLP 4Q13 List G20
Lab Order: 13110665

Date: *1/6/2014*

CASE NARRATIVE

Analytical Comments for METHOD 8082_W, LCSD-86273: LCS/LCSD RPDs are outside of the laboratory control limits.

Analytical Comments for METHOD 8270_wnew, 13110665-02a: Acid surrogate recovery was below the limit.
Analytical Comments for METHOD 8270_wnew, 13110665-03a: Acid surrogate recovery was below the limit.

Analytical Comments for METHOD 552.1_W, LCS-86473: LCS recovery was above the laboratory control limit.
Analytical Comments for METHOD 552.1_W, 13110665-01AMS: MS recovery was above the laboratory control limit. Analytical Comments for METHOD 552.1_W, 13110665-01AMSD: MSD recovery was above the laboratory control limit.

Analytical Comments for METHOD 504_W, LCS-86477: LCS recovery was above the limit.
Analytical Comments for METHOD 504_W, LCSD-86477: LCSD recoveries were above the limits.

Analytical Comments for METHOD RADIATION, 13110665-01A, 02A, 03A, 04A, 05A, 06A: The Radium-226/228 analysis by Method 7500-Ra B and D was performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-01

Client Sample ID: AP-1
Report Date: 1/6/2014
Collection Date: 11/20/2013 1:35:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.92		pH units	11/20/13 13:30	R195716	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	44.7	2.00	mg/L	11/21/13	R194546	SG
Fluoride	< 0.500	0.500	mg/L	11/21/13	R194546	SG
Nitrogen, Nitrate (As N)	0.686	0.500	mg/L	11/21/13	R194546	SG
Sulfate	581	50.0	mg/L	11/21/13	R194546	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	11/27/13 10:47	86348	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1,250	10.0	mg/L	11/26/13 07:25	R194881	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	11/22/13 12:34	86268	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	11/27/13 10:23	86266	CS2
Arsenic	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Barium	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Beryllium	< 0.00400	0.00400	mg/L	11/27/13 10:23	86266	CS2
Boron	18.9	0.0312	mg/L	12/2/13 11:46	86266	CS2
Cadmium	< 0.00500	0.00500	mg/L	11/27/13 10:23	86266	CS2
Chromium	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Cobalt	< 1.00	1.00	mg/L	11/27/13 10:23	86266	CS2
Copper	< 0.650	0.650	mg/L	11/27/13 10:23	86266	CS2
Iron	27.1	5.00	mg/L	11/27/13 10:23	86266	CS2
Lead	< 0.00750	0.00750	mg/L	11/27/13 10:23	86266	CS2
Manganese	0.468	0.150	mg/L	11/27/13 10:23	86266	CS2
Nickel	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Selenium	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Silver	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Thallium	< 0.00200	0.00200	mg/L	11/27/13 10:23	86266	CS2

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-01

Client Sample ID: AP-1
Report Date: 1/6/2014
Collection Date: 11/20/2013 1:35:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	11/27/13 10:23	86266	CS2
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
Carbofuran	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	11/29/13 18:50	86477	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	11/29/13 18:50	86477	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/4/13 17:42	86282	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	12/3/13	86473	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	11/29/13	86271	LP
Atrazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Chlordane	< 0.199	0.199		µg/L	11/29/13 20:22	86271	LP
Endrin	< 0.0213	0.0213		µg/L	11/29/13 20:22	86271	LP
Heptachlor	< 0.0213	0.0213		µg/L	11/29/13 20:22	86271	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	11/29/13 20:22	86271	LP
Methoxychlor	< 0.0213	0.0213		µg/L	11/29/13 20:22	86271	LP
Simazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Toxaphene	< 0.532	0.532		µg/L	11/29/13 20:22	86271	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1221	< 0.332	0.332		µg/L	11/25/13	86273	NCH
Aroclor 1232	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1242	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1248	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1254	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1260	< 0.166	0.166		µg/L	11/25/13	86273	NCH
PCB, Total	< 1.33	1.33		µg/L	11/25/13	86273	NCH

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-01

Client Sample ID: AP-1
Report Date: 1/6/2014
Collection Date: 11/20/2013 1:35:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	11/27/13 12:06	86278	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	11/27/13 12:06	86278	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	11/27/13 12:06	86278	SJ1
Phenol	< 0.664	0.664		µg/L	11/27/13 12:06	86278	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.248	0.248		µg/L	12/4/13	86263	MNN
2,4-D	< 0.234	0.234		µg/L	12/4/13	86263	MNN
Dinoseb	< 0.219	0.219		µg/L	12/4/13	86263	MNN
Pentachlorophenol	< 0.263	0.263	C	µg/L	12/4/13	86263	MNN
Picloram	< 0.215	0.215	C	µg/L	12/4/13	86263	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	11/23/13 00:33	86289	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	11/23/13 00:33	86289	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Benzene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Chlorobenzene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
cis-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Ethylbenzene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Methylene chloride	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Styrene	< 4.00	4.00		µg/L	11/23/13 00:33	86289	XN
Tetrachloroethene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
Toluene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 00:33	86289	XN

Qualifiers:

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E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-01

Client Sample ID: AP-1
Report Date: 1/6/2014
Collection Date: 11/20/2013 1:35:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Trichloroethene	< 2.00	2.00	µg/L	11/23/13 00:33	86289	XN
Vinyl chloride	< 2.00	2.00	µg/L	11/23/13 00:33	86289	XN
Xylenes, Total	< 6.00	6.00	µg/L	11/23/13 00:33	86289	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.89	0.23	pCi/L	12/20/13	R196112	OUT
Radium-228	1.4	1.2	pCi/L	12/20/13	R196112	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
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R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-02

Client Sample ID: AP-2
Report Date: 1/6/2014
Collection Date: 11/20/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.76		pH units	11/20/13 12:55	R195716	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	34.8	2.00	mg/L	11/21/13	R194546	SG
Fluoride	< 0.500	0.500	mg/L	11/21/13	R194546	SG
Nitrogen, Nitrate (As N)	0.290	0.0500	mg/L	11/21/13	R194546	SG
Sulfate	< 5.00	5.00	mg/L	11/21/13	R194546	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	11/27/13 10:47	86348	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	748	10.0	mg/L	11/26/13 07:25	R194881	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	11/22/13 12:34	86268	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	11/27/13 10:23	86266	CS2
Arsenic	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Barium	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Beryllium	< 0.00400	0.00400	mg/L	11/27/13 10:23	86266	CS2
Boron	4.78	2.00	mg/L	11/27/13 10:23	86266	CS2
Cadmium	< 0.00500	0.00500	mg/L	11/27/13 10:23	86266	CS2
Chromium	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Cobalt	< 1.00	1.00	mg/L	11/27/13 10:23	86266	CS2
Copper	< 0.650	0.650	mg/L	11/27/13 10:23	86266	CS2
Iron	33.9	5.00	mg/L	11/27/13 10:23	86266	CS2
Lead	0.0150	0.00750	mg/L	11/27/13 10:23	86266	CS2
Manganese	20.3	0.0625	mg/L	11/27/13 10:23	86266	CS2
Nickel	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Selenium	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Silver	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Thallium	< 0.00200	0.00200	mg/L	11/27/13 10:23	86266	CS2

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-02

Client Sample ID: AP-2
Report Date: 1/6/2014
Collection Date: 11/20/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	11/27/13 10:23	86266	CS2
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
Carbofuran	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0401	0.0401	C	µg/L	11/29/13 19:21	86477	LP
1,2-Dibromoethane	< 0.0562	0.0562	C	µg/L	11/29/13 19:21	86477	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/4/13 14:46	86282	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	12/3/13	86473	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	11/29/13	86271	LP
Atrazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Chlordane	< 0.199	0.199		µg/L	11/29/13 21:09	86271	LP
Endrin	< 0.0213	0.0213		µg/L	11/29/13 21:09	86271	LP
Heptachlor	< 0.0213	0.0213		µg/L	11/29/13 21:09	86271	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	11/29/13 21:09	86271	LP
Methoxychlor	< 0.0213	0.0213		µg/L	11/29/13 21:09	86271	LP
Simazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Toxaphene	< 0.531	0.531		µg/L	11/29/13 21:09	86271	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1221	< 0.332	0.332		µg/L	11/25/13	86273	NCH
Aroclor 1232	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1242	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1248	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1254	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1260	< 0.166	0.166		µg/L	11/25/13	86273	NCH
PCB, Total	< 1.33	1.33		µg/L	11/25/13	86273	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-02

Client Sample ID: AP-2
Report Date: 1/6/2014
Collection Date: 11/20/2013 12:55:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	11/27/13 12:51	86315	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	11/27/13 12:51	86315	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	11/27/13 12:51	86315	SJ1
Phenol	< 0.663	0.663		µg/L	11/27/13 12:51	86315	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.248	0.248		µg/L	12/4/13	86263	MNN
2,4-D	< 0.233	0.233		µg/L	12/4/13	86263	MNN
Dinoseb	< 0.218	0.218		µg/L	12/4/13	86263	MNN
Pentachlorophenol	< 0.263	0.263	C	µg/L	12/4/13	86263	MNN
Picloram	< 0.215	0.215	C	µg/L	12/4/13	86263	MNN
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	11/23/13 01:03	86289	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	11/23/13 01:03	86289	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Benzene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Chlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
cis-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Ethylbenzene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Methylene chloride	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Styrene	< 4.00	4.00		µg/L	11/23/13 01:03	86289	XN
Tetrachloroethene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
Toluene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 01:03	86289	XN

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Lab Order:	13110665	**Report Date:**	1/6/2014
Project:	CWLP 4Q13 List G20	**Collection Date:**	11/20/2013 12:55:00 PM
Lab ID:	13110665-02	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Trichloroethene	< 2.00	2.00	µg/L	11/23/13 01:03	86289	XN
Vinyl chloride	< 2.00	2.00	µg/L	11/23/13 01:03	86289	XN
Xylenes, Total	< 6.00	6.00	µg/L	11/23/13 01:03	86289	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.4	0.2	pCi/L	12/20/13	R196112	OUT
Radium-228	0.89	0.62	pCi/L	12/20/13	R196112	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-03

Client Sample ID: AP-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 12:20:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.88		pH units	11/20/13 12:20	R195716	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	46.8	2.00	mg/L	11/21/13	R194546	SG
Fluoride	< 0.500	0.500	mg/L	11/21/13	R194546	SG
Nitrogen, Nitrate (As N)	0.0860	0.0500	mg/L	11/21/13	R194546	SG
Sulfate	338	50.0	mg/L	11/21/13	R194546	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	12/2/13 13:53	86392	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	870	10.0	mg/L	11/26/13 07:25	R194881	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	11/22/13 12:34	86268	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	11/27/13 10:23	86266	CS2
Arsenic	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Barium	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Beryllium	< 0.00400	0.00400	mg/L	11/27/13 10:23	86266	CS2
Boron	20.6	0.0312	mg/L	12/2/13 11:46	86266	CS2
Cadmium	< 0.00500	0.00500	mg/L	11/27/13 10:23	86266	CS2
Chromium	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Cobalt	< 1.00	1.00	mg/L	11/27/13 10:23	86266	CS2
Copper	< 0.650	0.650	mg/L	11/27/13 10:23	86266	CS2
Iron	18.1	5.00	mg/L	11/27/13 10:23	86266	CS2
Lead	< 0.00750	0.00750	mg/L	11/27/13 10:23	86266	CS2
Manganese	8.99	0.0625	mg/L	12/2/13 11:46	86266	CS2
Nickel	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Selenium	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Silver	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Thallium	< 0.00200	0.00200	mg/L	11/27/13 10:23	86266	CS2

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-03

Client Sample ID: AP-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 12:20:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	11/27/13 10:23	86266	CS2
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
Carbofuran	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0400	0.0400	C	µg/L	11/29/13 19:53	86477	LP
1,2-Dibromoethane	< 0.0560	0.0560	C	µg/L	11/29/13 19:53	86477	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/4/13 15:30	86282	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	12/3/13	86473	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	11/29/13	86271	LP
Atrazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Chlordane	< 0.200	0.200		µg/L	11/29/13 21:56	86271	LP
Endrin	< 0.0213	0.0213		µg/L	11/29/13 21:56	86271	LP
Heptachlor	< 0.0213	0.0213		µg/L	11/29/13 21:56	86271	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	11/29/13 21:56	86271	LP
Methoxychlor	< 0.0213	0.0213		µg/L	11/29/13 21:56	86271	LP
Simazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Toxaphene	< 0.532	0.532		µg/L	11/29/13 21:56	86271	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1221	< 0.333	0.333		µg/L	11/25/13	86273	NCH
Aroclor 1232	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1242	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1248	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1254	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1260	< 0.166	0.166		µg/L	11/25/13	86273	NCH
PCB, Total	< 1.33	1.33		µg/L	11/25/13	86273	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-03

Client Sample ID: AP-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 12:20:00 PM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	12/4/13 10:24	86315	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	12/4/13 10:24	86315	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	12/4/13 10:24	86315	SJ1
Phenol	< 0.663	0.663		µg/L	12/4/13 10:24	86315	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.250	0.250		µg/L	12/4/13	86263	MNN
2,4-D	< 0.235	0.235		µg/L	12/4/13	86263	MNN
Dinoseb	< 0.220	0.220		µg/L	12/4/13	86263	MNN
Pentachlorophenol	< 0.265	0.265	C	µg/L	12/4/13	86263	MNN
Picloram	< 0.216	0.216	C	µg/L	12/4/13	86263	MNN
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	11/23/13 01:33	86289	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	11/23/13 01:33	86289	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Benzene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Chlorobenzene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
cis-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Ethylbenzene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Methylene chloride	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Styrene	< 4.00	4.00		µg/L	11/23/13 01:33	86289	XN
Tetrachloroethene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
Toluene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 01:33	86289	XN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Lab Order:	13110665	**Report Date:**	1/6/2014
Project:	CWLP 4Q13 List G20	**Collection Date:**	11/20/2013 12:20:00 PM
Lab ID:	13110665-03	**Matrix:**	Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Trichloroethene	< 2.00	2.00	µg/L	11/23/13 01:33	86289	XN
Vinyl chloride	< 2.00	2.00	µg/L	11/23/13 01:33	86289	XN
Xylenes, Total	< 6.00	6.00	µg/L	11/23/13 01:33	86289	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.51	0.23	pCi/L	12/20/13	R196112	OUT
Radium-228	ND	1.15	pCi/L	12/20/13	R196112	OUT

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-04

Client Sample ID: AP-4
Report Date: 1/6/2014
Collection Date: 11/20/2013 11:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.10		pH units	11/20/13 11:50	R195716	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	10.9	2.00	mg/L	11/21/13	R194546	SG
Fluoride	< 0.500	0.500	mg/L	11/21/13	R194546	SG
Nitrogen, Nitrate (As N)	0.0970	0.0500	mg/L	11/21/13	R194546	SG
Sulfate	< 5.00	5.00	mg/L	11/21/13	R194546	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	12/2/13 13:53	86392	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	316	10.0	mg/L	11/26/13 07:25	R194881	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	11/22/13 12:34	86268	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	11/27/13 10:23	86266	CS2
Arsenic	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Barium	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Beryllium	< 0.00400	0.00400	mg/L	11/27/13 10:23	86266	CS2
Boron	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Cadmium	< 0.00500	0.00500	mg/L	11/27/13 10:23	86266	CS2
Chromium	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Cobalt	< 1.00	1.00	mg/L	11/27/13 10:23	86266	CS2
Copper	< 0.650	0.650	mg/L	11/27/13 10:23	86266	CS2
Iron	11.8	5.00	mg/L	11/27/13 10:23	86266	CS2
Lead	< 0.00750	0.00750	mg/L	11/27/13 10:23	86266	CS2
Manganese	0.159	0.150	mg/L	11/27/13 10:23	86266	CS2
Nickel	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Selenium	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Silver	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Thallium	< 0.00200	0.00200	mg/L	11/27/13 10:23	86266	CS2

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-04

Client Sample ID: AP-4
Report Date: 1/6/2014
Collection Date: 11/20/2013 11:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	11/27/13 10:23	86266	CS2
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
Carbofuran	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	11/29/13 20:24	86477	LP
1,2-Dibromoethane	< 0.0558	0.0558	C	µg/L	11/29/13 20:24	86477	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/5/13 13:29	86282	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	12/3/13	86473	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	11/29/13	86271	LP
Atrazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Chlordane	< 0.199	0.199		µg/L	11/29/13 22:44	86271	LP
Endrin	< 0.0213	0.0213		µg/L	11/29/13 22:44	86271	LP
Heptachlor	< 0.0213	0.0213		µg/L	11/29/13 22:44	86271	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	11/29/13 22:44	86271	LP
Methoxychlor	< 0.0213	0.0213		µg/L	11/29/13 22:44	86271	LP
Simazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Toxaphene	< 0.532	0.532		µg/L	11/29/13 22:44	86271	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1221	< 0.332	0.332		µg/L	11/25/13	86273	NCH
Aroclor 1232	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1242	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1248	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1254	< 0.166	0.166		µg/L	11/25/13	86273	NCH
Aroclor 1260	< 0.166	0.166		µg/L	11/25/13	86273	NCH
PCB, Total	< 1.33	1.33		µg/L	11/25/13	86273	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-04

Client Sample ID: AP-4
Report Date: 1/6/2014
Collection Date: 11/20/2013 11:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	11/27/13 14:22	86315	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	11/27/13 14:22	86315	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	11/27/13 14:22	86315	SJ1
Phenol	< 0.665	0.665		µg/L	11/27/13 14:22	86315	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.250	0.250		µg/L	12/4/13	86263	MNN
2,4-D	< 0.235	0.235		µg/L	12/4/13	86263	MNN
Dinoseb	< 0.220	0.220		µg/L	12/4/13	86263	MNN
Pentachlorophenol	< 0.265	0.265	C	µg/L	12/4/13	86263	MNN
Picloram	< 0.216	0.216	C	µg/L	12/4/13	86263	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	11/23/13 02:03	86289	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	11/23/13 02:03	86289	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Benzene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Chlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
cis-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Ethylbenzene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Methylene chloride	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Styrene	< 4.00	4.00		µg/L	11/23/13 02:03	86289	XN
Tetrachloroethene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
Toluene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 02:03	86289	XN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-04

Client Sample ID: AP-4
Report Date: 1/6/2014
Collection Date: 11/20/2013 11:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Trichloroethene	< 2.00	2.00	µg/L	11/23/13 02:03	86289	XN
Vinyl chloride	< 2.00	2.00	µg/L	11/23/13 02:03	86289	XN
Xylenes, Total	< 6.00	6.00	µg/L	11/23/13 02:03	86289	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.46	0.2	pCi/L	12/20/13	R196112	OUT
Radium-228	ND	0.52	pCi/L	12/20/13	R196112	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Client Sample ID: AP-5
Lab Order: 13110665
Report Date: 1/6/2014
Project: CWLP 4Q13 List G20
Collection Date: 11/20/2013 10:50:00 AM
Lab ID: 13110665-05
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.32		pH units	11/20/13 10:50	R195716	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	2.07	2.00	mg/L	11/21/13	R194546	SG
Fluoride	< 0.500	0.500	mg/L	11/21/13	R194546	SG
Nitrogen, Nitrate (As N)	1.13	0.500	mg/L	11/21/13	R194546	SG
Sulfate	59.5	5.00	mg/L	11/21/13	R194546	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.0100	0.0100	mg/L	12/2/13 13:53	86392	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	384	10.0	mg/L	11/26/13 07:25	R194881	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	11/22/13 12:34	86268	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	11/27/13 10:23	86266	CS2
Arsenic	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Barium	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Beryllium	< 0.00400	0.00400	mg/L	11/27/13 10:23	86266	CS2
Boron	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Cadmium	< 0.00500	0.00500	mg/L	11/27/13 10:23	86266	CS2
Chromium	0.113	0.100	mg/L	11/27/13 10:23	86266	CS2
Cobalt	< 1.00	1.00	mg/L	11/27/13 10:23	86266	CS2
Copper	< 0.650	0.650	mg/L	11/27/13 10:23	86266	CS2
Iron	134	0.625	mg/L	11/27/13 10:23	86266	CS2
Lead	0.0638	0.00750	mg/L	11/27/13 10:23	86266	CS2
Manganese	5.96	0.0125	mg/L	11/27/13 10:23	86266	CS2
Nickel	0.163	0.100	mg/L	11/27/13 10:23	86266	CS2
Selenium	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Silver	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Thallium	< 0.00200	0.00200	mg/L	11/27/13 10:23	86266	CS2

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-05

Client Sample ID: AP-5
Report Date: 1/6/2014
Collection Date: 11/20/2013 10:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	11/27/13 10:23	86266	CS2
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
Carbofuran	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0398	0.0398	C	µg/L	11/29/13 20:55	86477	LP
1,2-Dibromoethane	< 0.0557	0.0557	C	µg/L	11/29/13 20:55	86477	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/4/13 16:58	86282	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	12/3/13	86473	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	11/29/13	86271	LP
Atrazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Chlordane	< 0.200	0.200		µg/L	11/29/13 23:31	86271	LP
Endrin	< 0.0213	0.0213		µg/L	11/29/13 23:31	86271	LP
Heptachlor	< 0.0213	0.0213		µg/L	11/29/13 23:31	86271	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	11/29/13 23:31	86271	LP
Methoxychlor	< 0.0213	0.0213		µg/L	11/29/13 23:31	86271	LP
Simazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Toxaphene	< 0.532	0.532		µg/L	11/29/13 23:31	86271	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1221	< 0.333	0.333		µg/L	11/26/13	86273	NCH
Aroclor 1232	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1242	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1248	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1254	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1260	< 0.166	0.166		µg/L	11/26/13	86273	NCH
PCB, Total	< 1.33	1.33		µg/L	11/26/13	86273	NCH

Qualifiers:

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H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-05

Client Sample ID: AP-5
Report Date: 1/6/2014
Collection Date: 11/20/2013 10:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	11/27/13 15:08	86315	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	11/27/13 15:08	86315	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	11/27/13 15:08	86315	SJ1
Phenol	< 0.664	0.664		µg/L	11/27/13 15:08	86315	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.250	0.250		µg/L	12/4/13	86263	MNN
2,4-D	< 0.235	0.235		µg/L	12/4/13	86263	MNN
Dinoseb	< 0.220	0.220		µg/L	12/4/13	86263	MNN
Pentachlorophenol	< 0.265	0.265	C	µg/L	12/4/13	86263	MNN
Picloram	< 0.216	0.216	C	µg/L	12/4/13	86263	MNN
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	11/23/13 02:33	86289	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	11/23/13 02:33	86289	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Benzene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Chlorobenzene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
cis-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Ethylbenzene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Methyl tert-butyl ether	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Methylene chloride	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Styrene	< 4.00	4.00		µg/L	11/23/13 02:33	86289	XN
Tetrachloroethene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
Toluene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 02:33	86289	XN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-05

Client Sample ID: AP-5
Report Date: 1/6/2014
Collection Date: 11/20/2013 10:50:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Trichloroethene	< 2.00	2.00	µg/L	11/23/13 02:33	86289	XN
Vinyl chloride	< 2.00	2.00	µg/L	11/23/13 02:33	86289	XN
Xylenes, Total	< 6.00	6.00	µg/L	11/23/13 02:33	86289	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.8	0.1	pCi/L	12/20/13	R196112	OUT
Radium-228	1.7	0.7	pCi/L	12/20/13	R196112	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-06

Client Sample ID: AW-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 9:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.31		pH units	11/20/13 09:10	R195716	JC
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	27.0	2.00	mg/L	11/21/13	R194546	SG
Fluoride	< 0.500	0.500	mg/L	11/21/13	R194546	SG
Nitrogen, Nitrate (As N)	0.122	0.0500	mg/L	11/21/13	R194546	SG
Sulfate	15.0	5.00	mg/L	11/21/13	R194546	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	11/21/13 13:02	86210	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	408	10.0	mg/L	11/26/13 07:25	R194881	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	11/22/13 12:34	86268	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	11/27/13 10:23	86266	CS2
Arsenic	0.134	0.0500	mg/L	11/27/13 10:23	86266	CS2
Barium	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Beryllium	< 0.00400	0.00400	mg/L	11/27/13 10:23	86266	CS2
Boron	< 2.00	2.00	mg/L	11/27/13 10:23	86266	CS2
Cadmium	< 0.00500	0.00500	mg/L	11/27/13 10:23	86266	CS2
Chromium	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Cobalt	< 1.00	1.00	mg/L	11/27/13 10:23	86266	CS2
Copper	< 0.650	0.650	mg/L	11/27/13 10:23	86266	CS2
Iron	14.3	5.00	mg/L	11/27/13 10:23	86266	CS2
Lead	< 0.00750	0.00750	mg/L	11/27/13 10:23	86266	CS2
Manganese	0.434	0.0125	mg/L	11/27/13 10:23	86266	CS2
Nickel	< 0.100	0.100	mg/L	11/27/13 10:23	86266	CS2
Selenium	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Silver	< 0.0500	0.0500	mg/L	11/27/13 10:23	86266	CS2
Thallium	< 0.00200	0.00200	mg/L	11/27/13 10:23	86266	CS2

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-06

Client Sample ID: AW-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 9:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Zinc	< 5.00	5.00		mg/L	11/27/13 10:23	86266	CS2
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
Carbofuran	< 2.00	2.00	C	µg/L	11/26/13	R194751	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0400	0.0400	C	µg/L	11/29/13 21:27	86477	LP
1,2-Dibromoethane	< 0.0560	0.0560	C	µg/L	11/29/13 21:27	86477	LP
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	12/4/13 19:55	86282	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	12/3/13	86473	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	11/29/13	86271	LP
Atrazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Chlordane	< 0.199	0.199		µg/L	12/2/13 18:39	86271	LP
Endrin	< 0.0213	0.0213		µg/L	12/2/13 18:39	86271	LP
Heptachlor	< 0.0213	0.0213		µg/L	12/2/13 18:39	86271	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	12/2/13 18:39	86271	LP
Methoxychlor	< 0.0213	0.0213		µg/L	12/2/13 18:39	86271	LP
Simazine	< 0.166	0.166		µg/L	11/29/13	86271	LP
Toxaphene	< 0.532	0.532		µg/L	12/2/13 18:39	86271	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				
Aroclor 1016	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1221	< 0.332	0.332		µg/L	11/26/13	86273	NCH
Aroclor 1232	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1242	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1248	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1254	< 0.166	0.166		µg/L	11/26/13	86273	NCH
Aroclor 1260	< 0.166	0.166		µg/L	11/26/13	86273	NCH
PCB, Total	< 1.33	1.33		µg/L	11/26/13	86273	NCH

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-06

Client Sample ID: AW-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 9:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Semivolatile Organic Compounds GC/MS		**Method:**		**SW8270D / SW3510C**			
Benzo(a)pyrene	< 1.33	1.33		µg/L	11/27/13 15:53	86315	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	11/27/13 15:53	86315	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	11/27/13 15:53	86315	SJ1
Phenol	< 0.665	0.665		µg/L	11/27/13 15:53	86315	SJ1
Solvent Extractable Compounds by HPLC		**Method:**		**SW8321A / SW3510C**			
2,4,5-TP (Silvex)	< 0.248	0.248		µg/L	12/4/13	86263	MNN
2,4-D	< 0.233	0.233		µg/L	12/4/13	86263	MNN
Dinoseb	< 0.219	0.219		µg/L	12/4/13	86263	MNN
Pentachlorophenol	< 0.263	0.263	C	µg/L	12/4/13	86263	MNN
Picloram	< 0.215	0.215	C	µg/L	12/4/13	86263	MNN
Volatile Organic Compounds by GC/MS		**Method:**		**SW8260B / SW5030A**			
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,1-Dichloroethene	< 4.00	4.00		µg/L	11/23/13 05:05	86310	JL
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,2-Dibromoethane	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,2-Dichloroethane	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
1,2-Dichloropropane	< 4.00	4.00		µg/L	11/23/13 05:05	86310	JL
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Benzene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Carbon tetrachloride	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Chlorobenzene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
cis-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Ethylbenzene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Methyl tert-butyl ether	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Methylene chloride	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Styrene	< 4.00	4.00		µg/L	11/23/13 05:05	86310	JL
Tetrachloroethene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
Toluene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL
trans-1,2-Dichloroethene	< 2.00	2.00		µg/L	11/23/13 05:05	86310	JL

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 13110665
Project: CWLP 4Q13 List G20
Lab ID: 13110665-06

Client Sample ID: AW-3
Report Date: 1/6/2014
Collection Date: 11/20/2013 9:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Trichloroethene	< 2.00	2.00	µg/L	11/23/13 05:05	86310	JL
Vinyl chloride	< 2.00	2.00	µg/L	11/23/13 05:05	86310	JL
Xylenes, Total	< 6.00	6.00	µg/L	11/23/13 05:05	86310	JL
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	1.	0.3	pCi/L	12/20/13	R196112	OUT
Radium-228	ND	1.8	pCi/L	12/20/13	R196112	OUT

Qualifiers:

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H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13116065

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1 GRAB	12	1 liter	G	10	CM	11/2/13	13:35	6.92	1		X	X	X	X	X	X	X				01A
AP-1 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11-2013	15:00	[signature]	11-2013	15:00
[signature]	11-2013	2005		- -	:
	- -	:	[signature]	11-21-13	9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

X SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:

11/12/2013 8:50:51 AM

Response to 1st RTP
CWLP - 02306

Electronic Filing: Received, Clerk's Office 01/29/2020

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8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX (847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 13110665

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	4 oz	G	1	CR	11/20/13	13:35	6.92	8		X										C
AP-1	GRAB	12	500 ml	P	1					4			X									D
AP-1	GRAB	12	500 ml	P	1					3				X								E
AP-1	GRAB	12	44 ml	V	3					5					X							F
AP-1	GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11-20-13	15:00	[signature]	11-20-13	15:00
[signature]	11-20-13	20:05		- -	: :
	- -	: :	[signature]	11-21-13	9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 4

SPECIAL INSTRUCTIONS:
pH = 7.00 = 7.00 @ 12:16
Temp = 45.2° F

11/12/2013 8:50:52 AM

Response to 1st RTP
CWLP - 02307

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX (847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 13110665

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2 GRAB	12	1 liter	G	10	CL	11/12/13	12:55	6.76	1		X	X	X	X	X	X	X				02A
AP-2 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11-20-13	1500	[signature]	11-20-13	15:00
[signature]	11-20-13	20:05		- -	:
	- -	:	[signature]	11-21-13	9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

Y SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:

11/12/2013 8:50:53 AM

Response to 1st RTP
CWLP - 02308

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
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Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 13110665

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	4 oz	G	1	CR	11/12/13	12:55	6.70	8		X										02C
AP-2	GRAB	12	500 ml	P	1					4			X									D
AP-2	GRAB	12	500 ml	P	1					3				X								E
AP-2	GRAB	12	44 ml	V	3					5					X							F
AP-2	GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date: 11-20-13 Time: 15:00	Received By:	Date: 11-20-13 Time: 15:a
Relinquished By:	Date: 11-20 13 Time: 20:05	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11 21 13 Time: 9:06

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

X SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:
pH = 7.00 = 7.00 @ 12:10
Temp = 45.2°

11/12/2013 8:50:53 AM

Response to 1st RTP
CWLP - 02309

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13110665

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3 GRAB	12	1 liter	G	10	CL	11/20/13	12:20	6.88	1		X	X	X	X	X	X	X				03A
AP-3 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	11-20-13	15:00		11-20-13	15:00
	11-20-13	20:05		- -	:
	- -	:		11-21-13	9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:

11/12/2013 8:50:53 AM

Response to 1st RTP
CWLP - 02310

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater (Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds. Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1311065

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3 GRAB	12	4 oz	G	1	CR	11/12/13	12:20	6.88	8		X										03C
AP-3 GRAB	12	500 ml	P	1					4			X									D
AP-3 GRAB	12	500 ml	P	1					3				X								E
AP-3 GRAB	12	44 ml	V	3					5					X							F
AP-3 GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date:	Received By:	Date:
	Time: 15:00		Time: 15:00
Relinquished By:	Date: 11-20-13	Received By:	Date: - -
	Time: 2005		Time: : :
Relinquished By:	Date: - -	Received By:	Date: 11-21-13
	Time: : :		Time: 9 :00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:

pH = 7.00 = 7.00 @ 12:10
Temp = 45.2°F

11/12/2013 8:50:54 AM

Response to 1st RTP
CWLP - 02311

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. NaHSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 13110605

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	1 liter	G	10	CR	11/20/13	11:50	7.10	1		X	X	X	X	X	X	X				04A
AP-4	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓B

Relinquished By:	Date:	Received By:	Date:
[signature]	Time: 15:00	[signature]	Time: 15:00
Relinquished By:	Date: 11 20 13	Received By:	Date: - -
[signature]	Time: 20:05		Time: : :
Relinquished By:	Date: - -	Received By:	Date: 11 -21 13
	Time: : :	[signature]	Time: 9 : 60 :

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:

11/12/2013 8:50:54 AM

Response to 1st RTP
CWLP - 02312

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX (847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1311D6165

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4 GRAB	12	4 oz	G	1	CR	11/20/13	11:50	7.10	8		X										04C
AP-4 GRAB	12	500 ml	P	1					4			X									D
AP-4 GRAB	12	500 ml	P	1					3				X								E
AP-4 GRAB	12	44 ml	V	3					5					X							F
AP-4 GRAB	12	44 ml	V	2					1						X						G

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	11-20-13	15:00	[signature]	11-20-13	15:00
[signature]	11-20-13	20:05		- -	: :
	- -	: :	[signature]	11-21-13	9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

Y SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) 4

SPECIAL INSTRUCTIONS:
pH = 7.00 = 7.00 @ 08:00
Temp = 68.5°F

11/12/2013 8:50:54 AM

Response to 1st RTP
CWLP - 02313

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX (847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13110665

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5 GRAB	12	1 liter	G	10	CR	11/20/13	10:50	7.32	1		X	X	X	X	X	X	X				05A
AP-5 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	↓ B

Relinquished By:	Date: Time:	Received By:	Date: Time:
	11-20-13 15:00		11-20-13 15:00
	11-20-13 20:05		- - : :
	- - : :		11-21-13 9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 4

SPECIAL INSTRUCTIONS:
pH = 7.00 = 7.00 @ 08:00
Temp = 68.5°F

11/12/2013 8:50:54 AM

Response to 1st RTP
CWLP - 02314

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 13110665

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	4 oz	G	1	CR	11/20/13	10:50	7.32	8		Y										05C
AP-5	GRAB	12	500 ml	P	1	↓	↓	↓	↓	4			Y									D
AP-5	GRAB	12	500 ml	P	1					3				Y								E
AP-5	GRAB	12	44 ml	V	3					5					Y							F
AP-5	GRAB	12	44 ml	V	2	↓	↓	↓	↓	1						Y						G

Relinquished By:	Date: 11-20-13 Time: 15:00	Received By:	Date: 11-20-13 Time: 15:00
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :
Relinquished By:	Date: - - Time: : :	Received By:	Date: 11-21-13 Time: 9:00

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 4

SPECIAL INSTRUCTIONS:

11/12/2013 8:50:54 AM

Response to 1st RTP
CWLP - 02315

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX (847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 13110665

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	1 liter	G	10	CL	11/20/13	09:10	7.31	1		X	X	X	X	X	X	X				06A
AW-3 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1									X	X	X	06B

Relinquished By:	Date: Time:	Received By:	Date: Time:
[signature]	11-2013 10:30	[signature]	11-2013 10:30
[signature]	11-2013 13:55		- - : :
	- - : :	[signature]	11-2013 13:55

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

Y SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS: pH: 7.00 = 7.00 @ 08:00
Temp = 68.50

11/12/2013 8:50:55 AM

Response to 1st RTP
CWLP - 02316

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 11/12/2013
Due Date: 11/26/2013

COC # 505355

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 13110665

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	4 oz	G	1	CL	11/2013	09:10	7.31	8		X										06C
AW-3 GRAB	12	500 ml	P	1	↓	↓	↓	↓	4			X									D
AW-3 GRAB	12	500 ml	P	1	↓	↓	↓	↓	3				X								E
AW-3 GRAB	12	44 ml	V	3	↓	↓	↓	↓	5					X							F
AW-3 GRAB	12	44 ml	V	2	↓	↓	↓	↓	1						X						G

Relinquished By:	Date: Time:	Received By:	Date: Time:
	11-2013 10:30		11-2013 10:30
	11-2013 13:53		- - : :
	- - : :		11-30-13 13:55

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

X SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 3

SPECIAL INSTRUCTIONS:

11/12/2013 8:50:55 AM

Response to 1st RTP
CWLP - 02317

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Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

April 09, 2014

RE CWLP List G20

Lab Orders:
14020699

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Jason Cristino
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 47 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

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CLIENT: City, Water, Light & Power

Project: CWLP List G20

Lab Order: 14020699

Date: *4/9/2014*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

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CLIENT: City, Water, Light & Power
Project: CWLP List G20
Lab Order: 14020699

Date: *4/9/2014*

CASE NARRATIVE

Analytical Comments for METHOD 552.1_W, MB-88240: Surrogate recovery is above the laboratory limit.

Analytical Comments for METHOD 552.1_W, 14020699-06AMS: MS recovery is above the laboratory limit.

Analytical Comments for METHOD 552.1_W, 14020699-06AMSD: MSD recovery is above the laboratory limit.

Analytical Comments for METHOD 552.1_W, 14020699-05A: Surrogate recovery is below the laboratory limit.

Analytical Comments for METHOD 8270_wnew, mb-88095: 2,4,6-Tribromophenol and Nitrobenzene-d5 surrogate recoveries were below the limits.

Analytical Comments for METHOD 8270_wnew, 14020699-01A, 02A, 03A, 04A, 06A: Surrogate recoveries are below the limits.

Analytical Comments for METHOD 8081_W, 14020699-02A, 03A, 04A, 06A: TCMX surrogate recovery is below the limit. Analytical Comments for METHOD RADIATION, 14020699-05A: The Radium-226/228 analysis by Method 7500-Ra B and D were performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001. Analytical Comments for METHOD RADIATION, 14020699-06A: The Radium-226/228 analysis by Method 7500-Ra B and D were performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001. Analytical Comments for METHOD RADIATION, 14020699-01A: The Radium-226/228 analysis by Method 7500-Ra B and D were performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001. Analytical Comments for METHOD RADIATION, 14020699-02A: The Radium-226/228 analysis by Method 7500-Ra B and D were performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001. Analytical Comments for METHOD RADIATION, 14020699-03A: The Radium-226/228 analysis by Method 7500-Ra B and D were performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001. Analytical Comments for METHOD RADIATION, 14020699-04A: The Radium-226/228 analysis by Method 7500-Ra B and D were performed by the subcontracted laboratory Underwriters Laboratories, IL NELAC #200001.

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-01

Client Sample ID: AP-1
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Groundwater Parameters		**Method:**	**FIELD AND NON-ANALYTICAL DATA**			
Bottom of well elevation (Feet)	500.82			2/26/14 08:10	R199029	DD1
Depth to water (feet below land surface)	2.48			2/26/14 08:10	R199029	DD1
Depth to water (feet from measuring point)	4.75			2/26/14 08:10	R199029	DD1
Elevation of groundwater surface (Feet)	533.05			2/26/14 08:10	R199029	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.03		pH units	2/26/14 08:10	R199029	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	43.1	2.00	mg/L	2/27/14	R198374	GSB
Fluoride	< 0.500	0.500	mg/L	2/27/14	R198374	GSB
Nitrogen, Nitrate (As N)	2.15	0.500	mg/L	2/27/14	R198374	GSB
Sulfate	436	50.0	mg/L	3/3/14	R198617	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	3/10/14 15:25	88292	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	1,100	10.0	mg/L	2/27/14 09:50	R198419	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	3/6/14 10:57	88235	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	2/28/14 13:00	88043	AG
Arsenic	0.158	0.0500	mg/L	2/28/14 13:00	88043	AG
Barium	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Beryllium	< 0.00400	0.00400	mg/L	2/28/14 13:00	88043	AG
Boron	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Cadmium	< 0.00500	0.00500	mg/L	2/28/14 13:00	88043	AG
Chromium	< 0.100	0.100	mg/L	2/28/14 13:00	88043	AG
Cobalt	< 1.00	1.00	mg/L	2/28/14 13:00	88043	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-01

Client Sample ID: AP-1
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	< 0.650	0.650		mg/L	2/28/14 13:00	88043	AG
Iron	27.7	5.00		mg/L	2/28/14 13:00	88043	AG
Lead	0.0291	0.00750		mg/L	2/28/14 13:00	88043	AG
Manganese	0.470	0.150		mg/L	2/28/14 13:00	88043	AG
Nickel	< 0.100	0.100		mg/L	2/28/14 13:00	88043	AG
Selenium	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Silver	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Thallium	< 0.00200	0.00200		mg/L	2/28/14 13:00	88043	AG
Zinc	< 5.00	5.00		mg/L	2/28/14 13:00	88043	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	3/7/14	R198753	LBI
Carbofuran	< 2.00	2.00	C	µg/L	3/7/14	R198753	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0397	0.0397	C	µg/L	3/8/14 14:36	88286	MNN
1,2-Dibromoethane	< 0.0500	0.0500	C	µg/L	3/8/14 14:36	88286	MNN
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	3/3/14 22:58	88100	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	3/6/14 23:36	88240	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	3/4/14	88055	LP
Atrazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Chlordane	< 0.199	0.199		µg/L	3/4/14 20:44	88055	LP
Endrin	< 0.0212	0.0212		µg/L	3/4/14 20:44	88055	LP
gamma-BHC	< 0.0212	0.0212		µg/L	3/4/14 20:44	88055	LP
Heptachlor	< 0.0212	0.0212		µg/L	3/4/14 20:44	88055	LP
Heptachlor epoxide	< 0.0212	0.0212		µg/L	3/4/14 20:44	88055	LP
Methoxychlor	< 0.0212	0.0212		µg/L	3/4/14 20:44	88055	LP
Simazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Toxaphene	< 0.531	0.531		µg/L	3/4/14 20:44	88055	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-01

Client Sample ID: AP-1
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Aroclor 1016	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1221	< 0.332	0.332		µg/L	3/3/14	88056	NCH
Aroclor 1232	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1242	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1248	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1254	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1260	< 0.166	0.166		µg/L	3/3/14	88056	NCH
PCB, Total	< 1.33	1.33		µg/L	3/3/14	88056	NCH
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	2/28/14 17:15	88095	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/28/14 17:15	88095	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	2/28/14 17:15	88095	SJ1
Phenol	< 0.667	0.667		µg/L	2/28/14 17:15	88095	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.247	0.247		µg/L	2/28/14	88053	RYL
2,4-D	< 0.232	0.232		µg/L	2/28/14	88053	RYL
Dinoseb	< 0.217	0.217		µg/L	2/28/14	88053	RYL
Pentachlorophenol	< 0.262	0.262	C	µg/L	2/28/14	88053	RYL
Picloram	< 0.214	0.214	C	µg/L	2/28/14	88053	RYL
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	2/28/14 02:24	88121	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	2/28/14 02:24	88121	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
Benzene	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	2/28/14 02:24	88121	XN

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-01

Client Sample ID: AP-1
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Chlorobenzene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
cis-1,2-Dichloroethene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Ethylbenzene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Methyl tert-butyl ether	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Methylene chloride	2.13	2.00	µg/L	2/28/14 02:24	88121	XN
Styrene	< 4.00	4.00	µg/L	2/28/14 02:24	88121	XN
Tetrachloroethene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Toluene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
trans-1,2-Dichloroethene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Trichloroethene	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Vinyl chloride	< 2.00	2.00	µg/L	2/28/14 02:24	88121	XN
Xylenes, Total	< 6.00	6.00	µg/L	2/28/14 02:24	88121	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	0.33	pCi/L	3/25/14	R200100	OUT
Radium-228	ND	0.97	pCi/L	3/25/14	R200100	OUT

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-02

Client Sample ID: AP-2
Report Date: 4/9/2014
Collection Date: 2/26/2014 7:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Groundwater Parameters		**Method:**	**FIELD AND NON-ANALYTICAL DATA**			
Bottom of well elevation (Feet)	520.38			2/26/14 09:20	R199029	DD1
Depth to water (feet below land surface)	2.32			2/26/14 09:20	R199029	DD1
Depth to water (feet from measuring point)	4.56			2/26/14 09:20	R199029	DD1
Elevation of groundwater surface (Feet)	535.74			2/26/14 09:20	R199029	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.93		pH units	2/26/14 09:20	R199029	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	22.0	2.00	mg/L	2/27/14	R198374	GSB
Fluoride	< 0.500	0.500	mg/L	2/27/14	R198374	GSB
Nitrogen, Nitrate (As N)	0.143	0.0500	mg/L	2/27/14	R198374	GSB
Sulfate	252	5.00	mg/L	2/27/14	R198374	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	3/10/14 15:25	88292	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	870	10.0	mg/L	2/27/14 09:50	R198419	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	3/6/14 10:57	88235	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	2/28/14 13:00	88043	AG
Arsenic	< 0.0500	0.0500	mg/L	2/28/14 13:00	88043	AG
Barium	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Beryllium	< 0.00400	0.00400	mg/L	2/28/14 13:00	88043	AG
Boron	4.10	2.00	mg/L	2/28/14 13:00	88043	AG
Cadmium	< 0.00500	0.00500	mg/L	2/28/14 13:00	88043	AG
Chromium	< 0.100	0.100	mg/L	2/28/14 13:00	88043	AG
Cobalt	< 1.00	1.00	mg/L	2/28/14 13:00	88043	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-02

Client Sample ID: AP-2
Report Date: 4/9/2014
Collection Date: 2/26/2014 7:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	< 0.650	0.650		mg/L	2/28/14 13:00	88043	AG
Iron	< 5.00	5.00		mg/L	2/28/14 13:00	88043	AG
Lead	< 0.00750	0.00750		mg/L	2/28/14 13:00	88043	AG
Manganese	11.5	0.150		mg/L	2/28/14 13:00	88043	AG
Nickel	< 0.100	0.100		mg/L	2/28/14 13:00	88043	AG
Selenium	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Silver	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Thallium	< 0.00200	0.00200		mg/L	2/28/14 13:00	88043	AG
Zinc	< 5.00	5.00		mg/L	2/28/14 13:00	88043	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	3/7/14	R198753	LBI
Carbofuran	< 2.00	2.00	C	µg/L	3/7/14	R198753	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	3/8/14 15:07	88286	MNN
1,2-Dibromoethane	< 0.0500	0.0500	C	µg/L	3/8/14 15:07	88286	MNN
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	3/3/14 23:41	88100	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	3/6/14 20:03	88240	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	3/4/14	88055	LP
Atrazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Chlordane	< 0.199	0.199		µg/L	3/4/14 21:31	88055	LP
Endrin	< 0.0212	0.0212		µg/L	3/4/14 21:31	88055	LP
gamma-BHC	< 0.0212	0.0212		µg/L	3/4/14 21:31	88055	LP
Heptachlor	< 0.0212	0.0212		µg/L	3/4/14 21:31	88055	LP
Heptachlor epoxide	< 0.0212	0.0212		µg/L	3/4/14 21:31	88055	LP
Methoxychlor	< 0.0212	0.0212		µg/L	3/4/14 21:31	88055	LP
Simazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Toxaphene	< 0.531	0.531		µg/L	3/4/14 21:31	88055	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-02

Client Sample ID: AP-2
Report Date: 4/9/2014
Collection Date: 2/26/2014 7:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Aroclor 1016	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1221	< 0.332	0.332		µg/L	3/3/14	88056	NCH
Aroclor 1232	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1242	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1248	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1254	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1260	< 0.166	0.166		µg/L	3/3/14	88056	NCH
PCB, Total	< 1.33	1.33		µg/L	3/3/14	88056	NCH
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.32	1.32		µg/L	2/28/14 17:57	88095	SJ1
Bis(2-ethylhexyl)phthalate	< 1.32	1.32		µg/L	2/28/14 17:57	88095	SJ1
Hexachlorocyclopentadiene	< 1.32	1.32		µg/L	2/28/14 17:57	88095	SJ1
Phenol	< 0.661	0.661		µg/L	2/28/14 17:57	88095	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	2/28/14	88053	RYL
2,4-D	< 0.234	0.234		µg/L	2/28/14	88053	RYL
Dinoseb	< 0.219	0.219		µg/L	2/28/14	88053	RYL
Pentachlorophenol	< 0.264	0.264	C	µg/L	2/28/14	88053	RYL
Picloram	< 0.216	0.216	C	µg/L	2/28/14	88053	RYL
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	3/1/14 11:49	88169	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	3/1/14 11:49	88169	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
Benzene	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	3/1/14 11:49	88169	XN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-02

Client Sample ID: AP-2
Report Date: 4/9/2014
Collection Date: 2/26/2014 7:45:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Chlorobenzene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
cis-1,2-Dichloroethene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Ethylbenzene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Methyl tert-butyl ether	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Methylene chloride	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Styrene	< 4.00	4.00	µg/L	3/1/14 11:49	88169	XN
Tetrachloroethene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Toluene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
trans-1,2-Dichloroethene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Trichloroethene	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Vinyl chloride	< 2.00	2.00	µg/L	3/1/14 11:49	88169	XN
Xylenes, Total	< 6.00	6.00	µg/L	3/1/14 11:49	88169	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.49	0.25	pCi/L	3/25/14	R200100	OUT
Radium-228	ND	0.64	pCi/L	3/25/14	R200100	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-03

Client Sample ID: AP-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Groundwater Parameters		**Method:**	**FIELD AND NON-ANALYTICAL DATA**			
Bottom of well elevation (Feet)	516.5			2/26/14 10:05	R199029	DD1
Depth to water (feet below land surface)	2.94			2/26/14 10:05	R199029	DD1
Depth to water (feet from measuring point)	4.64			2/26/14 10:05	R199029	DD1
Elevation of groundwater surface (Feet)	530.96			2/26/14 10:05	R199029	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	6.25		pH units	2/26/14 10:05	R199029	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	47.7	2.00	mg/L	2/27/14	R198374	GSB
Fluoride	< 0.500	0.500	mg/L	2/27/14	R198374	GSB
Nitrogen, Nitrate (As N)	0.119	0.0500	mg/L	2/27/14	R198374	GSB
Sulfate	298	5.00	mg/L	2/27/14	R198374	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	3/10/14 15:25	88292	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	812	10.0	mg/L	2/27/14 09:50	R198419	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	3/6/14 10:57	88235	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	2/27/14 13:49	88033	AG
Arsenic	< 0.0500	0.0500	mg/L	2/27/14 13:49	88033	AG
Barium	< 2.00	2.00	mg/L	2/27/14 13:49	88033	AG
Beryllium	< 0.00400	0.00400	mg/L	2/27/14 13:49	88033	AG
Boron	19.3	2.00	mg/L	2/27/14 13:49	88033	AG
Cadmium	< 0.00500	0.00500	mg/L	2/27/14 13:49	88033	AG
Chromium	< 0.100	0.100	mg/L	2/27/14 13:49	88033	AG
Cobalt	< 1.00	1.00	mg/L	2/27/14 13:49	88033	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-03

Client Sample ID: AP-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	< 0.650	0.650		mg/L	2/27/14 13:49	88033	AG
Iron	23.9	5.00		mg/L	2/27/14 13:49	88033	AG
Lead	< 0.00750	0.00750		mg/L	2/27/14 13:49	88033	AG
Manganese	5.58	0.150		mg/L	2/27/14 13:49	88033	AG
Nickel	< 0.100	0.100		mg/L	2/27/14 13:49	88033	AG
Selenium	< 0.0500	0.0500		mg/L	2/27/14 13:49	88033	AG
Silver	< 0.0500	0.0500		mg/L	2/27/14 13:49	88033	AG
Thallium	< 0.00200	0.00200		mg/L	2/27/14 13:49	88033	AG
Zinc	< 5.00	5.00		mg/L	2/27/14 13:49	88033	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	3/7/14	R198753	LBI
Carbofuran	< 2.00	2.00	C	µg/L	3/7/14	R198753	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0400	0.0400	C	µg/L	3/8/14 15:38	88286	MNN
1,2-Dibromoethane	< 0.0500	0.0500	C	µg/L	3/8/14 15:38	88286	MNN
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	3/4/14 01:08	88100	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	3/6/14 20:46	88240	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	3/4/14	88055	LP
Atrazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Chlordane	< 0.199	0.199		µg/L	3/4/14 22:19	88055	LP
Endrin	< 0.0212	0.0212		µg/L	3/4/14 22:19	88055	LP
gamma-BHC	< 0.0212	0.0212		µg/L	3/4/14 22:19	88055	LP
Heptachlor	< 0.0212	0.0212		µg/L	3/4/14 22:19	88055	LP
Heptachlor epoxide	< 0.0212	0.0212		µg/L	3/4/14 22:19	88055	LP
Methoxychlor	< 0.0212	0.0212		µg/L	3/4/14 22:19	88055	LP
Simazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Toxaphene	< 0.531	0.531		µg/L	3/4/14 22:19	88055	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-03

Client Sample ID: AP-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Aroclor 1016	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1221	< 0.332	0.332		µg/L	3/3/14	88056	NCH
Aroclor 1232	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1242	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1248	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1254	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1260	< 0.166	0.166		µg/L	3/3/14	88056	NCH
PCB, Total	< 1.33	1.33		µg/L	3/3/14	88056	NCH
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	2/28/14 18:38	88095	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/28/14 18:38	88095	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	2/28/14 18:38	88095	SJ1
Phenol	< 0.665	0.665		µg/L	2/28/14 18:38	88095	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	2/28/14	88053	RYL
2,4-D	< 0.234	0.234		µg/L	2/28/14	88053	RYL
Dinoseb	< 0.219	0.219		µg/L	2/28/14	88053	RYL
Pentachlorophenol	< 0.264	0.264	C	µg/L	2/28/14	88053	RYL
Picloram	< 0.216	0.216	C	µg/L	2/28/14	88053	RYL
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	2/28/14 03:28	88121	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	2/28/14 03:28	88121	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
Benzene	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	2/28/14 03:28	88121	XN

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-03

Client Sample ID: AP-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:05:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Chlorobenzene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
cis-1,2-Dichloroethene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Ethylbenzene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Methyl tert-butyl ether	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Methylene chloride	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Styrene	< 4.00	4.00	µg/L	2/28/14 03:28	88121	XN
Tetrachloroethene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Toluene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
trans-1,2-Dichloroethene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Trichloroethene	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Vinyl chloride	< 2.00	2.00	µg/L	2/28/14 03:28	88121	XN
Xylenes, Total	< 6.00	6.00	µg/L	2/28/14 03:28	88121	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.64	0.35	pCi/L	3/25/14	R200100	OUT
Radium-228	0.85	0.48	pCi/L	3/25/14	R200100	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-04

Client Sample ID: AP-4
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Groundwater Parameters		**Method:**	**FIELD AND NON-ANALYTICAL DATA**			
Bottom of well elevation (Feet)	491.65			2/26/14 10:55	R199029	DD1
Depth to water (feet below land surface)	6.3			2/26/14 10:55	R199029	DD1
Depth to water (feet from measuring point)	11.6			2/26/14 10:55	R199029	DD1
Elevation of groundwater surface (Feet)	543.			2/26/14 10:55	R199029	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.31		pH units	2/26/14 10:55	R199029	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	10.6	2.00	mg/L	3/4/14	R198613	SG
Fluoride	< 0.500	0.500	mg/L	3/4/14	R198613	SG
Nitrogen, Nitrate (As N)	0.68589	0.500	mg/L	3/4/14	R198613	SG
Sulfate	< 5.00	5.00	mg/L	3/13/14	R199033	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	3/10/14 15:25	88292	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	442	10.0	mg/L	2/27/14 09:50	R198419	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	3/6/14 10:57	88235	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	2/28/14 13:00	88043	AG
Arsenic	< 0.0500	0.0500	mg/L	2/28/14 13:00	88043	AG
Barium	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Beryllium	< 0.00400	0.00400	mg/L	2/28/14 13:00	88043	AG
Boron	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Cadmium	< 0.00500	0.00500	mg/L	2/28/14 13:00	88043	AG
Chromium	< 0.100	0.100	mg/L	2/28/14 13:00	88043	AG
Cobalt	< 1.00	1.00	mg/L	2/28/14 13:00	88043	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-04

Client Sample ID: AP-4
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	< 0.650	0.650		mg/L	2/28/14 13:00	88043	AG
Iron	10.0	5.00		mg/L	2/28/14 13:00	88043	AG
Lead	< 0.00750	0.00750		mg/L	2/28/14 13:00	88043	AG
Manganese	0.150	0.150		mg/L	2/28/14 13:00	88043	AG
Nickel	< 0.100	0.100		mg/L	2/28/14 13:00	88043	AG
Selenium	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Silver	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Thallium	< 0.00200	0.00200		mg/L	2/28/14 13:00	88043	AG
Zinc	< 5.00	5.00		mg/L	2/28/14 13:00	88043	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	3/10/14	R198863	LBI
Carbofuran	< 2.00	2.00	C	µg/L	3/10/14	R198863	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0399	0.0399	C	µg/L	3/8/14 16:09	88286	MNN
1,2-Dibromoethane	< 0.0500	0.0500	C	µg/L	3/8/14 16:09	88286	MNN
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	3/4/14 09:04	88100	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	3/6/14 21:28	88240	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	3/4/14	88055	LP
Atrazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Chlordane	< 0.199	0.199		µg/L	3/4/14 23:06	88055	LP
Endrin	< 0.0213	0.0213		µg/L	3/4/14 23:06	88055	LP
gamma-BHC	< 0.0213	0.0213		µg/L	3/4/14 23:06	88055	LP
Heptachlor	< 0.0213	0.0213		µg/L	3/4/14 23:06	88055	LP
Heptachlor epoxide	< 0.0213	0.0213		µg/L	3/4/14 23:06	88055	LP
Methoxychlor	< 0.0213	0.0213		µg/L	3/4/14 23:06	88055	LP
Simazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Toxaphene	< 0.532	0.532		µg/L	3/4/14 23:06	88055	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-04

Client Sample ID: AP-4
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Aroclor 1016	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1221	< 0.332	0.332		µg/L	3/3/14	88056	NCH
Aroclor 1232	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1242	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1248	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1254	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1260	< 0.166	0.166		µg/L	3/3/14	88056	NCH
PCB, Total	< 1.33	1.33		µg/L	3/3/14	88056	NCH
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	2/28/14 19:19	88095	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	2/28/14 19:19	88095	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	2/28/14 19:19	88095	SJ1
Phenol	< 0.663	0.663		µg/L	2/28/14 19:19	88095	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.248	0.248		µg/L	2/28/14	88053	RYL
2,4-D	< 0.233	0.233		µg/L	2/28/14	88053	RYL
Dinoseb	< 0.218	0.218		µg/L	2/28/14	88053	RYL
Pentachlorophenol	< 0.263	0.263	C	µg/L	2/28/14	88053	RYL
Picloram	< 0.215	0.215	C	µg/L	2/28/14	88053	RYL
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	3/1/14 12:19	88169	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	3/1/14 12:19	88169	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
Benzene	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	3/1/14 12:19	88169	XN

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-04

Client Sample ID: AP-4
Report Date: 4/9/2014
Collection Date: 2/26/2014 10:55:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Chlorobenzene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
cis-1,2-Dichloroethene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Ethylbenzene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Methyl tert-butyl ether	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Methylene chloride	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Styrene	< 4.00	4.00	µg/L	3/1/14 12:19	88169	XN
Tetrachloroethene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Toluene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
trans-1,2-Dichloroethene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Trichloroethene	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Vinyl chloride	< 2.00	2.00	µg/L	3/1/14 12:19	88169	XN
Xylenes, Total	< 6.00	6.00	µg/L	3/1/14 12:19	88169	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.91	0.35	pCi/L	3/25/14	R200100	OUT
Radium-228	0.56	0.5	pCi/L	3/25/14	R200100	OUT

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-05

Client Sample ID: AP-5
Report Date: 4/9/2014
Collection Date: 2/26/2014 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Groundwater Parameters		**Method:**	**FIELD AND NON-ANALYTICAL DATA**			
Bottom of well elevation (Feet)	552.34			2/26/14 11:40	R199029	DD1
Depth to water (feet below land surface)	16.4			2/26/14 11:40	R199029	DD1
Depth to water (feet from measuring point)	18.7			2/26/14 11:40	R199029	DD1
Elevation of groundwater surface (Feet)	565.2			2/26/14 11:40	R199029	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.48		pH units	2/26/14 11:40	R199029	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	2.83	2.00	mg/L	3/4/14	R198613	SG
Fluoride	< 0.500	0.500	mg/L	3/4/14	R198613	SG
Nitrogen, Nitrate (As N)	0.6531	0.500	mg/L	3/4/14	R198613	SG
Sulfate	63.1	5.00	mg/L	3/4/14	R198613	SG
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	3/10/14 15:25	88292	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	358	10.0	mg/L	2/27/14 09:50	R198419	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	3/6/14 10:57	88235	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	2/28/14 13:00	88043	AG
Arsenic	< 0.0500	0.0500	mg/L	2/28/14 13:00	88043	AG
Barium	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Beryllium	< 0.00400	0.00400	mg/L	2/28/14 13:00	88043	AG
Boron	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Cadmium	< 0.00500	0.00500	mg/L	2/28/14 13:00	88043	AG
Chromium	< 0.100	0.100	mg/L	2/28/14 13:00	88043	AG
Cobalt	< 1.00	1.00	mg/L	2/28/14 13:00	88043	AG

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-05

Client Sample ID: AP-5
Report Date: 4/9/2014
Collection Date: 2/26/2014 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	< 0.650	0.650		mg/L	2/28/14 13:00	88043	AG
Iron	563	5.00		mg/L	2/28/14 13:00	88043	AG
Lead	0.0320	0.00750		mg/L	2/28/14 13:00	88043	AG
Manganese	1.09	0.150		mg/L	2/28/14 13:00	88043	AG
Nickel	< 0.100	0.100		mg/L	2/28/14 13:00	88043	AG
Selenium	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Silver	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Thallium	< 0.00200	0.00200		mg/L	2/28/14 13:00	88043	AG
Zinc	< 5.00	5.00		mg/L	2/28/14 13:00	88043	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	3/10/14	R198863	LBI
Carbofuran	< 2.00	2.00	C	µg/L	3/10/14	R198863	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0398	0.0398	C	µg/L	3/8/14 16:40	88286	MNN
1,2-Dibromoethane	< 0.0500	0.0500	C	µg/L	3/8/14 16:40	88286	MNN
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	3/4/14 01:51	88100	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	3/6/14 22:11	88240	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	3/4/14	88055	LP
Atrazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Chlordane	< 0.199	0.199		µg/L	3/4/14 23:53	88055	LP
Endrin	< 0.0212	0.0212		µg/L	3/4/14 23:53	88055	LP
gamma-BHC	< 0.0212	0.0212		µg/L	3/4/14 23:53	88055	LP
Heptachlor	< 0.0212	0.0212		µg/L	3/4/14 23:53	88055	LP
Heptachlor epoxide	< 0.0212	0.0212		µg/L	3/4/14 23:53	88055	LP
Methoxychlor	< 0.0212	0.0212		µg/L	3/4/14 23:53	88055	LP
Simazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Toxaphene	< 0.531	0.531		µg/L	3/4/14 23:53	88055	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-05

Client Sample ID: AP-5
Report Date: 4/9/2014
Collection Date: 2/26/2014 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Aroclor 1016	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1221	< 0.332	0.332		µg/L	3/3/14	88056	NCH
Aroclor 1232	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1242	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1248	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1254	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1260	< 0.166	0.166		µg/L	3/3/14	88056	NCH
PCB, Total	< 1.33	1.33		µg/L	3/3/14	88056	NCH
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	3/5/14 08:56	88095	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	3/5/14 08:56	88095	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	3/5/14 08:56	88095	SJ1
Phenol	< 0.665	0.665		µg/L	3/5/14 08:56	88095	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.247	0.247		µg/L	2/28/14	88053	RYL
2,4-D	< 0.232	0.232		µg/L	2/28/14	88053	RYL
Dinoseb	< 0.218	0.218		µg/L	2/28/14	88053	RYL
Pentachlorophenol	< 0.262	0.262	C	µg/L	2/28/14	88053	RYL
Picloram	< 0.214	0.214	C	µg/L	2/28/14	88053	RYL
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	3/1/14 12:49	88169	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	3/1/14 12:49	88169	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
Benzene	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	3/1/14 12:49	88169	XN

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-05

Client Sample ID: AP-5
Report Date: 4/9/2014
Collection Date: 2/26/2014 11:40:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Chlorobenzene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
cis-1,2-Dichloroethene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Ethylbenzene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Methyl tert-butyl ether	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Methylene chloride	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Styrene	< 4.00	4.00	µg/L	3/1/14 12:49	88169	XN
Tetrachloroethene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Toluene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
trans-1,2-Dichloroethene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Trichloroethene	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Vinyl chloride	< 2.00	2.00	µg/L	3/1/14 12:49	88169	XN
Xylenes, Total	< 6.00	6.00	µg/L	3/1/14 12:49	88169	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	ND	-0.04	pCi/L	3/25/14	R200100	OUT
Radium-228	ND	1.8	pCi/L	3/25/14	R200100	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-06

Client Sample ID: AW-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Groundwater Parameters		**Method:**	**FIELD AND NON-ANALYTICAL DATA**			
Bottom of well elevation (Feet)	495.75			2/26/14 08:10	R199029	DD1
Depth to water (feet below land surface)	10.72			2/26/14 08:10	R199029	DD1
Depth to water (feet from measuring point)	13.3			2/26/14 08:10	R199029	DD1
Elevation of groundwater surface (Feet)	527.03			2/26/14 08:10	R199029	DD1
On-site pH by Ion Selective Electrode		**Method:**	**SM4500-H**			
pH	7.48		pH units	2/26/14 08:10	R199029	DD1
Anions by Ion Chromatography		**Method:**	**SW9056**			
Chloride	23.3	2.00	mg/L	2/27/14	R198374	GSB
Fluoride	< 0.500	0.500	mg/L	2/27/14	R198374	GSB
Nitrogen, Nitrate (As N)	0.151	0.0500	mg/L	2/27/14	R198374	GSB
Sulfate	13.7	5.00	mg/L	2/27/14	R198374	GSB
Cyanide, Total		**Method:**	**SW9010B/9014 BY AQUACHEM**			
Cyanide	< 0.200	0.200	mg/L	3/10/14 15:25	88292	JZ1
Total Dissolved Solids		**Method:**	**SM2540C**			
Total Dissolved Solids (Residue, Filterable)	406	10.0	mg/L	2/27/14 09:50	R198419	TB2
Mercury, Total		**Method:**	**SW7470A / HG PREP**			
Mercury	< 0.000500	0.000500	mg/L	3/6/14 10:57	88235	IG
Metals, Total.		**Method:**	**SW6020A / SW3015**			
Antimony	< 0.00600	0.00600	mg/L	2/28/14 13:00	88043	AG
Arsenic	0.139	0.0500	mg/L	2/28/14 13:00	88043	AG
Barium	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Beryllium	< 0.00400	0.00400	mg/L	2/28/14 13:00	88043	AG
Boron	< 2.00	2.00	mg/L	2/28/14 13:00	88043	AG
Cadmium	< 0.00500	0.00500	mg/L	2/28/14 13:00	88043	AG
Chromium	< 0.100	0.100	mg/L	2/28/14 13:00	88043	AG
Cobalt	< 1.00	1.00	mg/L	2/28/14 13:00	88043	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-06

Client Sample ID: AW-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Copper	< 0.650	0.650		mg/L	2/28/14 13:00	88043	AG
Iron	11.0	5.00		mg/L	2/28/14 13:00	88043	AG
Lead	< 0.00750	0.00750		mg/L	2/28/14 13:00	88043	AG
Manganese	0.323	0.150		mg/L	2/28/14 13:00	88043	AG
Nickel	< 0.100	0.100		mg/L	2/28/14 13:00	88043	AG
Selenium	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Silver	< 0.0500	0.0500		mg/L	2/28/14 13:00	88043	AG
Thallium	< 0.00200	0.00200		mg/L	2/28/14 13:00	88043	AG
Zinc	< 5.00	5.00		mg/L	2/28/14 13:00	88043	AG
Carbamates		**Method:**	**E531.1**				
Aldicarb	< 2.00	2.00	C	µg/L	3/10/14	R198863	LBI
Carbofuran	< 2.00	2.00	C	µg/L	3/10/14	R198863	LBI
EDB, DBCP and 123TCP by GC/ECD		**Method:**	**E504.1 / E504.1**				
1,2-Dibromo-3-chloropropane	< 0.0395	0.0395	C	µg/L	3/8/14 17:11	88286	MNN
1,2-Dibromoethane	< 0.0500	0.0500	C	µg/L	3/8/14 17:11	88286	MNN
Endothal		**Method:**	**E548.1 / E548.1**				
Endothal	< 15.5	15.5	C	µg/L	3/4/14 03:18	88100	SJ1
Haloacetic Acids		**Method:**	**E552.2 / E552.1**				
Dalapon	< 0.500	0.500	C	µg/L	3/6/14 14:20	88240	LP
Organochlorine Pesticides		**Method:**	**SW8081A / SW3510C**				
Alachlor	< 0.133	0.133		µg/L	3/4/14	88055	LP
Atrazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Chlordane	< 0.199	0.199		µg/L	3/5/14 00:41	88055	LP
Endrin	< 0.0212	0.0212		µg/L	3/5/14 00:41	88055	LP
gamma-BHC	< 0.0212	0.0212		µg/L	3/5/14 00:41	88055	LP
Heptachlor	< 0.0212	0.0212		µg/L	3/5/14 00:41	88055	LP
Heptachlor epoxide	< 0.0212	0.0212		µg/L	3/5/14 00:41	88055	LP
Methoxychlor	< 0.0212	0.0212		µg/L	3/5/14 00:41	88055	LP
Simazine	< 0.166	0.166		µg/L	3/4/14	88055	LP
Toxaphene	< 0.531	0.531		µg/L	3/5/14 00:41	88055	LP
Polychlorinated biphenyls (PCBs)		**Method:**	**SW8082 / SW3510C**				

Qualifiers:

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J - Analyte detected below quanititation limits

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-06

Client Sample ID: AW-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Batch	Analyst
Aroclor 1016	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1221	< 0.332	0.332		µg/L	3/3/14	88056	NCH
Aroclor 1232	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1242	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1248	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1254	< 0.166	0.166		µg/L	3/3/14	88056	NCH
Aroclor 1260	< 0.166	0.166		µg/L	3/3/14	88056	NCH
PCB, Total	< 1.33	1.33		µg/L	3/3/14	88056	NCH
Semivolatile Organic Compounds GC/MS		**Method:**	**SW8270D / SW3510C**				
Benzo(a)pyrene	< 1.33	1.33		µg/L	3/5/14 08:13	88095	SJ1
Bis(2-ethylhexyl)phthalate	< 1.33	1.33		µg/L	3/5/14 08:13	88095	SJ1
Hexachlorocyclopentadiene	< 1.33	1.33		µg/L	3/5/14 08:13	88095	SJ1
Phenol	< 0.664	0.664		µg/L	3/5/14 08:13	88095	SJ1
Solvent Extractable Compounds by HPLC		**Method:**	**SW8321A / SW3510C**				
2,4,5-TP (Silvex)	< 0.249	0.249		µg/L	2/28/14	88053	RYL
2,4-D	< 0.234	0.234		µg/L	2/28/14	88053	RYL
Dinoseb	< 0.219	0.219		µg/L	2/28/14	88053	RYL
Pentachlorophenol	< 0.264	0.264	C	µg/L	2/28/14	88053	RYL
Picloram	< 0.216	0.216	C	µg/L	2/28/14	88053	RYL
Volatile Organic Compounds by GC/MS		**Method:**	**SW8260B / SW5030A**				
1,1,1-Trichloroethane	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,1,2-Trichloroethane	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,1-Dichloroethene	< 4.00	4.00		µg/L	2/28/14 05:04	88121	XN
1,2,4-Trichlorobenzene	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,2-Dibromo-3-chloropropane	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,2-Dibromoethane	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,2-Dichlorobenzene	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,2-Dichloroethane	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
1,2-Dichloropropane	< 4.00	4.00		µg/L	2/28/14 05:04	88121	XN
1,4-Dichlorobenzene	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
Benzene	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN
Carbon tetrachloride	< 2.00	2.00		µg/L	2/28/14 05:04	88121	XN

Qualifiers:

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Report of Laboratory Analysis

CLIENT: City, Water, Light & Power
Lab Order: 14020699
Project: CWLP List G20
Lab ID: 14020699-06

Client Sample ID: AW-3
Report Date: 4/9/2014
Collection Date: 2/26/2014 8:10:00 AM
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Chlorobenzene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
cis-1,2-Dichloroethene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Ethylbenzene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Methyl tert-butyl ether	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Methylene chloride	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Styrene	< 4.00	4.00	µg/L	2/28/14 05:04	88121	XN
Tetrachloroethene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Toluene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
trans-1,2-Dichloroethene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Trichloroethene	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Vinyl chloride	< 2.00	2.00	µg/L	2/28/14 05:04	88121	XN
Xylenes, Total	< 6.00	6.00	µg/L	2/28/14 05:04	88121	XN
Radiation Testing		**Method:**	**EPA 900/903.1/904/905/906**			
Radium-226	0.93	0.32	pCi/L	3/25/14	R200100	OUT
Radium-228	ND	0.65	pCi/L	3/25/14	R200100	OUT

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
C - Laboratory not accredited for this parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quanititation limits

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 14020699

Sample I.D.		Sample Type	Container Size	Container Type	Container No	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	1 liter	G	11	CM	02-26-14	08:10	7.03	1												01A
AP-1	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1												01B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	02-26-14	16:30		- -	: :
Relinquished By:	Date: - -	Time: :	Received By:	Date: - -	Time: :
Relinquished By:	Date: - -	Time: :	Received By: [signature]	Date: 2-26-14	Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS:
pH cal 7.00-7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:54 PM

Response to 1st RTP
CWLP - 02345

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 1402069

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-1	GRAB	12	4 oz	G	1	CL	02-26-14	08:10	7.03	8												01C
AP-1	GRAB	12	500 ml	P	1	↓	↓	↓	↓	4												01D
AP-1	GRAB	12	500 ml	P	1					3												01E
AP-1	GRAB	12	44 ml	V	3					5												01F
AP-1	GRAB	12	44 ml	V	2					1												01G

Relinquished By:	Date: 02-26-14 Time: 16:30	Received By:	Date: - - Time: : :	EMT USE ONLY ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	
Relinquished By:	Date: - - Time: : :	Received By: Bruce Welch	Date: 2-26-14 Time: 16:30	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:55 PM

Response to 1st RTP
CWLP - 02346

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 14020699

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2 GRAB	12	1 liter	G	11	CL	02-26-14	09:20	6.93	1												02A
AP-2 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1												02B

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	02-26-14	16:30		- -	: :
Relinquished By:	Date: - -	Time: :	Received By:	Date: - -	Time: :
Relinquished By:	Date: - -	Time: :	Received By: [signature]	Date: 2-26-14	Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:55 PM

Response to 1st RTP
CWLP - 02347

30

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 14020199

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-2	GRAB	12	4 oz	G	1	CR	022614	0745	6.93	8												02 C
AP-2	GRAB	12	500 ml	P	1	"	"	"	"	4												02 D
AP-2	GRAB	12	500 ml	P	1	"	"	"	"	3												02 E
AP-2	GRAB	12	44 ml	V	3	"	"	"	"	5												02 F
AP-2	GRAB	12	44 ml	V	2	"	"	"	"	1												02 G

Relinquished By:	Date: 02-26-14 Time: 16:30	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: 2-26-14 Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:55 PM

Response to 1st RTP
CWLP - 02348

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY

EMT WORKORDER # 14020697

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	1 liter	G	11	CH	02-26-14	10:05	6.25	1												03 A
AP-3	GRAB	12	1 liter	P	1	↓	↓	↓	↓	1												03 B

Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By:	Date: 2-26-14
	Time:	Bruce Webb	Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 5

SPECIAL INSTRUCTIONS:
pH cal 7.00=7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:55 PM

Response to 1st RTP
CWLP - 02349

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 14020499

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-3	GRAB	12	4 oz	G	1	CL	02-26-14	10:05	6.25	8												03 C
AP-3	GRAB	12	500 ml	P	1	↓	↓	↓	↓	4												03 D
AP-3	GRAB	12	500 ml	P	1					3												03 E
AP-3	GRAB	12	44 ml	V	3					5												03 F
AP-3	GRAB	12	44 ml	V	2	↓	↓	↓	↓	1												03 G

Relinquished By: [signature]	Date: 02-26-14 Time: 16:30	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By: [signature]	Date: 2-26-14 Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 5

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:55 PM

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1402049

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4 GRAB	12	1 liter	G	11	CR	02-26-14	10:55	7.31	1												04 A
AP-4 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1												04 B

Relinquished By:	Date: Time:	Received By:	Date: Time:
[signature]	02-26-14 16:30		- - : :
	- - : :		- - : :
	- - : :	[signature]	2-26-14 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @ 7:45 on 02-26-14

2/10/2014 6:18:55 PM

Response to 1st RTP
CWLP - 02351

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 14026699

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-4	GRAB	12	4 oz	G	1	CR	02-26-14	10:55	7.31	8												04 C
AP-4	GRAB	12	500 ml	P	1					4												04 D
AP-4	GRAB	12	500 ml	P	1					3												04 E
AP-4	GRAB	12	44 ml	V	3					5												04 F
AP-4	GRAB	12	44 ml	V	2					1												04 G

Relinquished By:	Date: / Time:	Received By:	Date: / Time:
[signature]	02-26-14 16:30		
Relinquished By:		Received By:	
Relinquished By:		Received By: [signature]	2-26-14 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) 2

SPECIAL INSTRUCTIONS:
pH cal 7.00=7.00 @ 07:45 on 02-26-14

2/10/2014 6:18:55 PM

Response to 1st RTP
CWLP - 02352

Electronic Filing: Received, Clerk's Office 01/29/2020

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Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 1402099

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5 GRAB	12	1 liter	G	11	CL	02-26-14	11:40	7.48	1												05 A
AP-5 GRAB	12	1 liter	P	1	↓	↓	↓	↓	1												05 B

Relinquished By:	Date: Time:	Received By:	Date: Time:
[signature]	02-26-14 16:30		
Relinquished By:	Date: Time:	Received By:	Date: Time:
Relinquished By:	Date: Time:	Received By: [signature]	Date: 2-26-14 Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @11:20 on 02-26-14

2/10/2014 6:18:56 PM

Response to 1st RTP
CWLP - 02353

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY

EMT WORKORDER # 1402699

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AP-5	GRAB	12	4 oz	G	1	CR	02-26-14	11.40	7.48	8												05 C
AP-5	GRAB	12	500 ml	P	1	"	"	"	"	4												05 D
AP-5	GRAB	12	500 ml	P	1	"	"	"	"	3												05 E
AP-5	GRAB	12	44 ml	V	3	"	"	"	"	5												05 F
AP-5	GRAB	12	44 ml	V	2	"	"	"	"	1												05 G

Relinquished By:	Date: 02-26-14 Time: 16:30	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :
Relinquished By:	Date: - - Time: :	Received By:	Date: 2-26-14 Time: 16:30

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

SAMPLE RECEIVED ON ICE
TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS:

pH (a) 7.00-7.00@11:20 on 02-26-14

2/10/2014 6:18:56 PM

Response to 1st RTP
CWLP - 02354

Electronic Filing: Received, Clerk's Office 01/29/2020

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8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis
1. Endothal
2. Dalapon
3. Herbicides
4. PCBs in Groundwater, Method 8082
5. Pesticides in Groundwater by Method 8081
6. Radiation Testing, Subcontracted
7. Semivolatile Organic Compounds by GCMS
8. Solids, Total Dissolved (TDS)
9. pH, Field tested
10. Anions by Ion Chromatography

EMT USE ONLY
EMT WORKORDER # 14020199

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3 GRAB	12	1 liter	G	11	TW	2-26-14	8:10	7.48	1		X	X	X	X	X	X	X				06A
AW-3 GRAB	12	1 liter	P	1	1	1	1		1									X	X	X	06B

Relinquished By:	Date:	Received By:	Date:
[signature]	2-26-14 Time: 16:20		Time:
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:
Relinquished By:	Date:	Received By: [signature]	Date:
	Time:		Time:

EMT USE ONLY
ClientID: SPRING
Client Contact: Joe Pavilonis
EMT Project ID: CWLP List G20
Jar Lot No.

☑ SAMPLE RECEIVED ON ICE
☑ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00 = 7.00 @ 745

2/10/2014 6:18:56 PM

Response to 1st RTP
CWLP - 02355

38

Electronic Filing: Received, Clerk's Office 01/29/2020

ENVIRONMENTAL MONITORING & TECHNOLOGIES, INC.
8100 North Austin Avenue Morton Grove, IL 60053-3203 (847) 967-6666 FAX:(847) 967-6735 www.emt.com

Chain of Custody Record

Scheduled Sampling Date: 02/17/2014
Due Date: 03/03/2014

COC # 505568

Company: City, Water, Light & Power
Contact:
Address: 201 East Lake Shore Drive
Springfield, IL 62707
Phone: (217) 757-8610
P.O. #: _____ Proj. #: _____
Project /Location: CWLP List G20

SAMPLE TYPE:
1. DI Water 2. Drinking Water 3. Soil
4. Extract 5. Wastewater 6. Oil
7. Sludge 8. Solid 9. Air
10. Chemical Waste 11. Wipe 12. Groundwater
13. eProduct 13. Solid 14. Groundwater(Filter)
15. Other

CONTAINER TYPE:
P - Plastic V - VOC Vial G - Glass
B - Tedlar Bag O - Other

PRESERVATIVE:
1. None 2. H2SO4 3. HNO3
4. NaOH 5. HCL 6. MeOH
7. Zn Ace 8. Na2S2O3 9. Na2HSO4
10. Other

Analysis

1. Carbamates
2. Cyanide, Total
3. Total RCRA Metals on a Liquid Sample
4. Volatile Organic Compounds, Method 8260
5. EDB, DBCP and 123TCP by GC/ECD

EMT USE ONLY
EMT WORKORDER # 1402069

Sample I.D.		Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Sampling pH	Preservation Field	Preservation Lab	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Lab Sample I.D.
AW-3	GRAB	12	4 oz	G	1	TW	2-26-14	816	7.48	8		X										06 ~~B~~ C
AW-3	GRAB	12	500 ml	P	1	"	"	"	"	4			X									06 D
AW-3	GRAB	12	500 ml	P	1	"	"	"	"	3				X								06 E
AW-3	GRAB	12	44 ml	V	3	"	"	"	"	5					X							06 F
AW-3	GRAB	12	44 ml	V	2	"	"	"	"	1						X						06 G

Relinquished By: TW	Date: 2-26-14 Time: 16:20	Received By:	Date: - - Time: : :	EMT USE ONLY
Relinquished By:	Date: - - Time: : :	Received By:	Date: - - Time: : :	ClientID: SPRING Client Contact: Joe Pavilonis EMT Project ID: CWLP List G20
Relinquished By:	Date: - - Time: : :	Received By: Barry Welch	Date: 2-26-14 Time: 16:20	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE
(Must be recorded if sampling was greater than 6 hrs.prior to sample receipt) 2

SPECIAL INSTRUCTIONS: pH cal 7.00=7.00 @ 745

2/10/2014 6:18:56 PM

Response to 1st RTP
CWLP - 02356

Electronic Filing: Received, Clerk's Office 01/29/2020

Environmental Monitoring & Technologies, Inc.

Sample Receipt Checklist

Client Name **SPRING** Date Received: 16:30 **2/26/2014**

Work Order Numbe **14020699** Received by BW1

Checklist completed by Signature 2-26-14 Date Reviewed by Initials Date

Matrix: Carrier name TW

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present and complete?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

1 amber for sample 05A has a cracked lid. The seal still seams secure. SA

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

LABORATORY REPORT

This report contains 7 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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UL LLC
110 S. Hill St., South Bend, IN 46617-2702 USA
T: 800.332.4345 / F: 574.233.8207 / W: UL.com

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 312991
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

UL ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
2984813	14020699 01A	7500 Ra B	02/26/14 08:10	Client	03/04/14 09:45
2984813	14020699 01A	7500 Ra D	02/26/14 08:10	Client	03/04/14 09:45
2984814	14020699 02A	7500 Ra B	02/26/14 07:45	Client	03/04/14 09:45
2984814	14020699 02A	7500 Ra D	02/26/14 07:45	Client	03/04/14 09:45
2984815	14020699 03A	7500 Ra B	02/26/14 10:05	Client	03/04/14 09:45
2984815	14020699 03A	7500 Ra D	02/26/14 10:05	Client	03/04/14 09:45
2984816	14020699 04A	7500 Ra B	02/26/14 10:55	Client	03/04/14 09:45
2984816	14020699 04A	7500 Ra D	02/26/14 10:55	Client	03/04/14 09:45
2984817	14020699 05A	7500 Ra B	02/26/14 11:40	Client	03/04/14 09:45
2984817	14020699 05A	7500 Ra D	02/26/14 11:40	Client	03/04/14 09:45
2984818	14020699 06A	7500 Ra B	02/26/14 08:10	Client	03/04/14 09:45
2984818	14020699 06A	7500 Ra D	02/26/14 08:10	Client	03/04/14 09:45

Report Summary

Note: Sample containers were provided by the client.

Note: The samples submitted for Methods 7500-Ra B and 7500-Ra D analysis were received beyond the five day preservation period. The client was notified of the situation.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from UL.

Jim Van Fleit PM

Digitally signed by james.a.vanfleit@ul.com
Date: 2014.04.07 10:14:03 -04'00'

Authorized Signature | Title | Date

Client Name: Environmental Monitoring Technologies
Report #: 312991

UL LLC
110 S. Hill St., South Bend, IN 46617-2702 USA
T: 800.332.4345 / F: 574.233.8207 / W: UL.com

Client Name: Environmental Monitoring Technologies Report #: 312991

Sampling Point: 14020699-01A PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
13982-63-3	Radium-226	7500-Ra B	---	0.33	0.25 ± 0.23	pCi/L	03/19/14 11:20	03/25/14 11:16	2984813
15262-20-1	Radium-228	7500-Ra D	---	0.97	-0.13 ± 0.55	pCi/L	03/19/14 11:20	03/28/14 12:57	2984813
---	Combined Radium	calc.	5 *	0.97	0.12 ± 0.60	pCi/L	03/19/14 11:20	03/28/14 12:57	2984813

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14020699-02A PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
13982-63-3	Radium-226	7500-Ra B	---	0.25	**0.49 ± 0.24**	pCi/L	03/19/14 11:20	03/25/14 11:16	2984814
15262-20-1	Radium-228	7500-Ra D	---	0.64	0.48 ± 0.39	pCi/L	03/19/14 11:20	03/28/14 12:57	2984814
---	Combined Radium	calc.	5 *	0.64	**0.97 ± 0.46**	pCi/L	03/19/14 11:20	03/28/14 12:57	2984814

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14020699-03A PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
13982-63-3	Radium-226	7500-Ra B	---	0.35	**0.64 ± 0.31**	pCi/L	03/19/14 11:20	03/25/14 11:16	2984815
15262-20-1	Radium-228	7500-Ra D	---	0.48	**0.85 ± 0.33**	pCi/L	03/19/14 11:20	03/28/14 12:57	2984815
---	Combined Radium	calc.	5 *	0.48	**1.49 ± 0.45**	pCi/L	03/19/14 11:20	03/28/14 12:57	2984815

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14020699-04A PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
13982-63-3	Radium-226	7500-Ra B	---	0.35	**0.91 ± 0.37**	pCi/L	03/19/14 11:20	03/25/14 11:16	2984816
15262-20-1	Radium-228	7500-Ra D	---	0.50	**0.56 ± 0.32**	pCi/L	03/19/14 11:20	03/28/14 12:57	2984816
---	Combined Radium	calc.	5 *	0.50	**1.47 ± 0.49**	pCi/L	03/19/14 11:20	03/28/14 12:57	2984816

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Client Name: Environmental Monitoring Technologies Report #: 312991

Sampling Point: 14020699-05A PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
13982-63-3	Radium-226	7500-Ra B	---	-0.04	-0.08 ± -0.03	pCi/L	03/19/14 11:20	03/25/14 11:16	2984817
15262-20-1	Radium-228	7500-Ra D	---	1.8	1.1 ± 1.1	pCi/L	03/19/14 11:20	03/28/14 12:57	2984817
---	Combined Radium	calc.	5 *	1.8	1.02 ± 1.11	pCi/L	03/19/14 11:20	03/28/14 12:57	2984817

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14020699-06A PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	UL ID #
13982-63-3	Radium-226	7500-Ra B	---	0.32	**0.93 ± 0.34**	pCi/L	03/19/14 11:20	03/25/14 11:16	2984818
15262-20-1	Radium-228	7500-Ra D	---	0.65	0.53 ± 0.40	pCi/L	03/19/14 11:20	03/28/14 12:57	2984818
---	Combined Radium	calc.	5 *	0.65	**1.46 ± 0.52**	pCi/L	03/19/14 11:20	03/28/14 12:57	2984818

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Response to 1st RTP
CWLP - 02362

312991

Environmental Monitoring & Tech

8100 North Austin Avenue
Morton Grove, IL 60053-3203
(847) 967-6666

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Underwriters Laboratory
110 South Hill St
South Bend, IN 46617

TEL: (574) 233-4777
FAX:
Acct #: 10467

03-Mar-14

Sample ID	Matrix	Collection Date	Bottle Type	Radium 226 + 228	Requested Tests
14020699-01A	Groundwater	2/26/2014 8:10:00 AM	1LAMGU	1	pH 7255 2984 813
14020699-02A	Groundwater	2/26/2014 7:45:00 AM	1LAMGU	1	814
14020699-03A	Groundwater	2/26/2014 10:05:00 AM	1LAMGU	1	815
14020699-04A	Groundwater	2/26/2014 10:55:00 AM	1LAMGU	1	816
14020699-05A	Groundwater	2/26/2014 11:40:00 AM	1LAMGU	1	817
14020699-06A	Groundwater	2/26/2014 8:10:00 AM	1LAMGU	1	818
					819

- Extra sample for earlier submitted bottles to have a 2L for each.

Received out of 5 day preservation period
OK to proceed per Jim VF.
5534-14

Client Provided Sample Container

Liters Received = 1 each site

Comments: PO #: 33925, second set of bottles (extra). Send report to Matt Gregory at: mgregory@emt.com. After analysis, the sample(s) do not need to be returned and can be disposed of. Contact me with any questions or issues at 847-324-3327. Please include a copy of the final COC with the report and also send an e-mail that the sample(s) was received and that the testing parameters and turn-around can be met. Thank you.

Mailed COC was not Signed at "Relinquished by" by Client

Iced

	Date/Time		Date/Time
Relinquished by:		**Received by:**	3-4-14 0945
Relinquished by:		**Received by:**	

4 Response to 1st RTP
CWLP - 02363

251486

Environmental Monitoring & Tech
8100 North Austin Avenue
Morton Grove, IL 60053-3203
(847) 967-6666

CHAIN-OF-CUSTODY RECORD

312991

Subcontractor:
Underwriters Laboratory
110 South Hill St
South Bend, IN 46617

TEL: (574) 233-4777
FAX:
Acct #: 10467

27-Feb-14

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests: Radium 226 and 228 by 7500-Ra B+D
14020699-01A	Groundwater	2/26/2014 8:10:00 AM	1LAMGU	1
14020699-02A	Groundwater	2/26/2014 7:45:00 AM	1LAMGU	1
14020699-03A	Groundwater	2/26/2014 10:05:00 AM	1LAMGU	1
14020699-04A	Groundwater	2/26/2014 10:55:00 AM	1LAMGU	1
14020699-05A	Groundwater	2/26/2014 11:40:00 AM	1LAMGU	1
14020699-06A	Groundwater	2/26/2014	1LAMGU	1

pH > 2 ss

Liters Received = 1L each Site SS 22814

Client Provided Sample Container

Comments: PO #: 33925. Send report to Matt Gregory at: mgregory@emt.com. Please analyze these samples with a standard turnaround. After analysis, the sample(s) do not need to be returned and can be disposed of. Contact me with any questions or issues at 847-324-3327. Please include a copy of the final COC with the report and also send an e-mail that the sample(s) was received and that the testing parameters and turn-around can be met. Thank you.

Iced

		Date/Time			Date/Time
Relinquished by:	Bruce Webb	2-27-14 16:05	**Received by:**	S Gregson	2-28-14 0945
Relinquished by:			**Received by:**		

47 Response to 1st RTP
CWLP - 02364

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

July 08, 2014

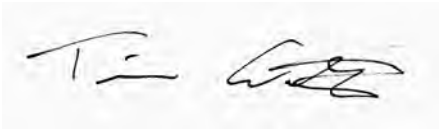
Work Order: 14E0462

RE: List G20
2nd Quarter 2014 Sampling Event

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek For Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 6/27/2014 1:20:08PM

Approved by,



Marilyn Krueding
Laboratory Director

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.
Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Environmental Monitoring and Technologies, Inc.

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Case Narrative

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Date: 07/08/2014

Sample Summary

Lab ID	Client Sample ID	Matrix	Sampled Date
14E0462-01	AW-3	Water	5/20/2014 11:25:00 AM
14E0462-02	AP-1	Water	5/20/2014 8:10:00 AM
14E0462-03	AP-2	Water	5/20/2014 8:55:00 AM
14E0462-04	AP-3	Water	5/20/2014 9:30:00 AM
14E0462-05	AP-4	Water	5/20/2014 10:30:00 AM
14E0462-06	AP-5	Water	5/20/2014 12:50:00 PM

Work Order: 14E0462

The samples were received on 5/20/2014 6:50:00 PM . The samples arrived in good condition and properly preserved. *The temperature of the cooler at receipt was 1 degrees C. Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

This work order contains analyses that were subcontracted. Subcontract data and receipt information is provided.

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AW-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 11:25
Matrix: Groundwater
Lab ID: 14E0462-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Metals by ICP-AES							
Method: SW6010C / SW3015							
Antimony	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Arsenic	**0.138**	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Barium	**0.274**	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Beryllium	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Boron	**0.166**	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Cadmium	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Chromium	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Cobalt	< 0.0313	0.0313		mg/L	05/29/14 13:26	B4E1092	CS2
Copper	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Iron	**23.0**	0.125		mg/L	05/29/14 13:26	B4E1092	CS2
Lead	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Manganese	**0.744**	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Nickel	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Selenium	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Silver	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Thallium	< 0.0625	0.0625		mg/L	05/29/14 13:26	B4E1092	CS2
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	06/05/14 12:58	B4F0281	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**25.1**	2.00		mg/L	05/21/14 22:50	B4E1247	wcicu
Fluoride	< 0.500	0.500		mg/L	05/21/14 22:50	B4E1247	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/21/14 22:50	B4E1247	wcicu
Sulfate	**8.25**	5.00		mg/L	05/21/14 22:50	B4E1247	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/12/14 09:49	B4F0528	JZ1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**450**	10.0		mg/L	05/23/14 16:00	B4E1181	LS3
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	05/22/14 07:59	B4E0980	JZ1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AW-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 11:25
Matrix: Groundwater
Lab ID: 14E0462-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Organochlorine Pesticides by GC/ECD (Continued)								
Method: SW8081B / SW3510 (Continued)								
Alachlor	< 0.327	0.327		ug/L		06/20/14 16:12	B4E1157	LP
Atrazine	< 0.327	0.327		ug/L		06/20/14 16:12	B4E1157	LP
Chlordane	< 0.327	0.327		ug/L		06/18/14 23:23	B4E1157	LP
Endrin	< 0.196	0.196		ug/L		06/18/14 23:23	B4E1157	LP
Lindane (gamma-BHC)	< 0.196	0.196		ug/L		06/18/14 23:23	B4E1157	LP
Heptachlor	< 0.196	0.196		ug/L		06/18/14 23:23	B4E1157	LP
Heptachlor epoxide	< 0.196	0.196		ug/L		06/18/14 23:23	B4E1157	LP
Methoxychlor	< 0.196	0.196		ug/L		06/20/14 16:12	B4E1157	LP
Simazine	< 0.327	0.327		ug/L		06/20/14 16:12	B4E1157	LP
Toxaphene	< 0.982	0.982		ug/L		06/18/14 23:23	B4E1157	LP
Surrogate: Decachlorobiphenyl				*Recovery: 68%*	*Limits: 30-135*	*06/18/14 23:23*	*B4E1157*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 61%*	*Limits: 44-124*	*06/18/14 23:23*	*B4E1157*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.164	0.164		ug/L		05/29/14 20:09	B4E1161	SYSTE
Aroclor 1221	< 0.327	0.327		ug/L		05/29/14 20:09	B4E1161	SYSTE
Aroclor 1232	< 0.164	0.164		ug/L		05/29/14 20:09	B4E1161	SYSTE
Aroclor 1242	< 0.164	0.164		ug/L		05/29/14 20:09	B4E1161	SYSTE
Aroclor 1248	< 0.164	0.164		ug/L		05/29/14 20:09	B4E1161	SYSTE
Aroclor 1254	< 0.164	0.164		ug/L		05/29/14 20:09	B4E1161	SYSTE
Aroclor 1260	< 0.164	0.164		ug/L		05/29/14 20:09	B4E1161	SYSTE
Surrogate: Decachlorobiphenyl				*Recovery: 96%*	*Limits: 40-135*	*05/29/14 20:09*	*B4E1161*	*SYSTE*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 63%*	*Limits: 13-133*	*05/29/14 20:09*	*B4E1161*	*SYSTE*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Carbofuran	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		05/27/14 21:36	B4E1008	EMT
2,4-D	< 0.249	0.249		ug/L		05/27/14 21:36	B4E1008	EMT
Dinoseb	< 0.249	0.249		ug/L		05/27/14 21:36	B4E1008	EMT
Picloram	< 0.249	0.249		ug/L		05/27/14 21:36	B4E1008	EMT
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 78%*	*Limits: 20-138*	*05/27/14 21:36*	*B4E1008*	*EMT*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AW-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 11:25
Matrix: Groundwater
Lab ID: 14E0462-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Benzene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/23/14 20:17	B4F0045	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 20:17	B4F0045	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Dichloromethane (Methylene chloride)	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Styrene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/23/14 20:17	B4F0045	XN
Toluene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 20:17	B4F0045	XN
Trichloroethene	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/23/14 20:17	B4F0045	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/23/14 20:17	B4F0045	XN
Surrogate: Dibromofluoromethane				*Recovery: 103%*	*Limits: 80-119*	*05/23/14 20:17*	*B4F0045*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 94%*	*Limits: 81-118*	*05/23/14 20:17*	*B4F0045*	*XN*
Surrogate: Fluorobenzene				*Recovery: 97%*	*Limits: 80-116*	*05/23/14 20:17*	*B4F0045*	*XN*
Surrogate: Toluene-d8				*Recovery: 99%*	*Limits: 89-112*	*05/23/14 20:17*	*B4F0045*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 118%*	*Limits: 85-114*	*05/23/14 20:17*	*B4F0045*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 134%*	*Limits: 70-120*	*05/23/14 20:17*	*B4F0045*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		05/30/14 20:00	B4F0201	LP
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0972	0.0972		ug/L		05/30/14 20:00	B4F0201	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/04/14 15:06	B4F0105	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 108%*	*Limits: 70-130*	*06/04/14 15:06*	*B4F0105*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		05/29/14 13:10	B4E1233	MNN
Surrogate: 2,4,6-Tribromophenol				*Recovery: 121%*	*Limits: 20-200*	*05/29/14 13:10*	*B4E1233*	*MNN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AW-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 11:25
Matrix: Groundwater
Lab ID: 14E0462-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.664	0.664		ug/L		05/24/14 15:56	B4E1078	SJ
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.664	0.664		ug/L		05/24/14 15:56	B4E1078	SJ
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.664	0.664		ug/L		05/24/14 15:56	B4E1078	SJ
Benzo(a)pyrene	< 1.33	1.33		ug/L		05/24/14 15:56	B4E1078	SJ
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 1.33	1.33		ug/L		05/24/14 15:56	B4E1078	SJ
Hexachlorocyclopentadiene	< 3.32	3.32		ug/L		05/24/14 15:56	B4E1078	SJ
Pentachlorophenol	< 13.3	13.3		ug/L		05/24/14 15:56	B4E1078	SJ
Surrogate: 2-Fluorophenol			*S*	*Recovery: 14%*	*Limits: 19-119*	*05/24/14 15:56*	*B4E1078*	*SJ*
Surrogate: Phenol-d5				*Recovery: 10%*	*Limits: 10-115*	*05/24/14 15:56*	*B4E1078*	*SJ*
Surrogate: Nitrobenzene-d5			*S*	*Recovery: 36%*	*Limits: 44-120*	*05/24/14 15:56*	*B4E1078*	*SJ*
Surrogate: 2-Fluorobiphenyl			*S*	*Recovery: 39%*	*Limits: 44-119*	*05/24/14 15:56*	*B4E1078*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 45%*	*Limits: 43-140*	*05/24/14 15:56*	*B4E1078*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 75%*	*Limits: 50-134*	*05/24/14 15:56*	*B4E1078*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Subcontracted Analyses							
Method: SM7500							
Radium-226	**1.3**	1.3		pCi/L	06/03/14 00:00		UL
Radium-228	**0.36**	0.65		pCi/L	06/04/14 00:00		UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-1
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:10
Matrix: Groundwater
Lab ID: 14E0462-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**504.0400**	0.000000		No unit	05/20/14 08:10	B4F0826	TW1
Depth to water (feet below land surface)	**6.930000**	0.000000		No unit	05/20/14 08:10	B4F0826	TW1
Depth to water (feet from measuring point)	**9.200000**	0.000000		No unit	05/20/14 08:10	B4F0826	TW1
Elevation of groundwater surface (Feet)	**526.1700**	0.000000		No unit	05/20/14 08:10	B4F0826	TW1
Method: SM2510B							
Specific Conductance	**952**	0.00		uS/cm	05/20/14 08:10	B4F0826	TW1
Method: SM2550-B							
Temperature	**60.1**	1.00		°F	05/20/14 08:10	B4F0826	TW1
Method: SM4500-H							
pH	**7.03**	0.05		pH Units	05/20/14 08:10	B4F0826	TW1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Antimony	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Arsenic	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Barium	**0.993**	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Beryllium	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Boron	**17.2**	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Cadmium	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Chromium	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Cobalt	< 0.0313	0.0313		mg/L	05/27/14 15:51	B4E1182	CS
Copper	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Iron	**48.3**	0.125		mg/L	05/27/14 15:51	B4E1182	CS
Lead	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Manganese	**0.877**	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Nickel	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Selenium	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Silver	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Thallium	< 0.0625	0.0625		mg/L	05/27/14 15:51	B4E1182	CS
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	06/05/14 12:58	B4F0281	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**45.3**	2.00		mg/L	05/21/14 23:33	B4E1247	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-1
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:10
Matrix: Groundwater
Lab ID: 14E0462-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	05/21/14 23:33	B4E1247	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/21/14 23:33	B4E1247	wcicu
Sulfate	**615**	50.0		mg/L	05/28/14 18:57	B4F0217	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/12/14 09:49	B4F0528	JZ1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1360**	10.0		mg/L	05/23/14 16:00	B4E1181	LS3
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	05/22/14 15:31	B4E1029	JZ1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.330	0.330		ug/L	06/20/14 16:59	B4E1157	LP
Atrazine	< 0.330	0.330		ug/L	06/20/14 16:59	B4E1157	LP
Chlordane	< 0.330	0.330		ug/L	06/19/14 00:10	B4E1157	LP
Endrin	< 0.198	0.198		ug/L	06/19/14 00:10	B4E1157	LP
Lindane (gamma-BHC)	< 0.198	0.198		ug/L	06/19/14 00:10	B4E1157	LP
Heptachlor	< 0.198	0.198		ug/L	06/19/14 00:10	B4E1157	LP
Heptachlor epoxide	< 0.198	0.198		ug/L	06/19/14 00:10	B4E1157	LP
Methoxychlor	< 0.198	0.198		ug/L	06/20/14 16:59	B4E1157	LP
Simazine	< 0.330	0.330		ug/L	06/20/14 16:59	B4E1157	LP
Toxaphene	< 0.991	0.991		ug/L	06/19/14 00:10	B4E1157	LP
Surrogate: Decachlorobiphenyl				*Recovery: 52%*	*Limits: 30-135*	*06/19/14 00:10*	*B4E1157*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 44-124*	*06/19/14 00:10*	*B4E1157*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.165	0.165		ug/L	05/29/14 20:36	B4E1161	SYSTE
Aroclor 1221	< 0.330	0.330		ug/L	05/29/14 20:36	B4E1161	SYSTE
Aroclor 1232	< 0.165	0.165		ug/L	05/29/14 20:36	B4E1161	SYSTE
Aroclor 1242	< 0.165	0.165		ug/L	05/29/14 20:36	B4E1161	SYSTE
Aroclor 1248	< 0.165	0.165		ug/L	05/29/14 20:36	B4E1161	SYSTE
Aroclor 1254	< 0.165	0.165		ug/L	05/29/14 20:36	B4E1161	SYSTE
Aroclor 1260	< 0.165	0.165		ug/L	05/29/14 20:36	B4E1161	SYSTE
Surrogate: Decachlorobiphenyl				*Recovery: 110%*	*Limits: 40-135*	*05/29/14 20:36*	*B4E1161*	*SYSTE*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 71%*	*Limits: 13-133*	*05/29/14 20:36*	*B4E1161*	*SYSTE*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-1
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:10
Matrix: Groundwater
Lab ID: 14E0462-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Carbofuran	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.248	0.248		ug/L		05/27/14 22:18	B4E1008	EMT
2,4-D	< 0.248	0.248		ug/L		05/27/14 22:18	B4E1008	EMT
Dinoseb	< 0.248	0.248		ug/L		05/27/14 22:18	B4E1008	EMT
Picloram	< 0.248	0.248		ug/L		05/27/14 22:18	B4E1008	EMT
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 87%*	*Limits: 20-138*	*05/27/14 22:18*	*B4E1008*	*EMT*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Benzene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/23/14 20:49	B4F0045	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 20:49	B4F0045	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Dichloromethane (Methylene chloride)	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Styrene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/23/14 20:49	B4F0045	XN
Toluene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 20:49	B4F0045	XN
Trichloroethene	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/23/14 20:49	B4F0045	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/23/14 20:49	B4F0045	XN
Surrogate: Dibromofluoromethane				*Recovery: 102%*	*Limits: 80-119*	*05/23/14 20:49*	*B4F0045*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 96%*	*Limits: 81-118*	*05/23/14 20:49*	*B4F0045*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/23/14 20:49*	*B4F0045*	*XN*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 89-112*	*05/23/14 20:49*	*B4F0045*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 127%*	*Limits: 85-114*	*05/23/14 20:49*	*B4F0045*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 126%*	*Limits: 70-120*	*05/23/14 20:49*	*B4F0045*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-1
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:10
Matrix: Groundwater
Lab ID: 14E0462-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		05/30/14 21:02	B4F0201	LP
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0946	0.0946		ug/L		05/30/14 21:02	B4F0201	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/04/14 15:50	B4F0105	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 205%*	*Limits: 70-130*	*06/04/14 15:50*	*B4F0105*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		05/29/14 13:54	B4E1233	MNN
Surrogate: 2,4,6-Tribromophenol				*Recovery: 91%*	*Limits: 20-200*	*05/29/14 13:54*	*B4E1233*	*MNN*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.655	0.655		ug/L		05/30/14 15:45	B4E1127	SJ
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.655	0.655		ug/L		05/30/14 15:45	B4E1127	SJ
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.655	0.655		ug/L		05/30/14 15:45	B4E1127	SJ
Benzo(a)pyrene	< 1.31	1.31		ug/L		05/30/14 15:45	B4E1127	SJ
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 1.31	1.31		ug/L		05/30/14 15:45	B4E1127	SJ
Hexachlorocyclopentadiene	< 3.27	3.27		ug/L		05/30/14 15:45	B4E1127	SJ
Pentachlorophenol	< 13.1	13.1		ug/L		05/30/14 15:45	B4E1127	SJ
Surrogate: 2-Fluorophenol				*Recovery: 19%*	*Limits: 19-119*	*05/30/14 15:45*	*B4E1127*	*SJ*
Surrogate: Phenol-d5				*Recovery: 13%*	*Limits: 10-115*	*05/30/14 15:45*	*B4E1127*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 53%*	*Limits: 44-120*	*05/30/14 15:45*	*B4E1127*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 53%*	*Limits: 44-119*	*05/30/14 15:45*	*B4E1127*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 58%*	*Limits: 43-140*	*05/30/14 15:45*	*B4E1127*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 106%*	*Limits: 50-134*	*05/30/14 15:45*	*B4E1127*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses								
Method: SM7500								
Radium-226	**-23.3**	-3.3		pCi/L		06/03/14 00:00		UL
Radium-228	**1.4**	0.7		pCi/L		06/04/14 00:00		UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-2
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:55
Matrix: Groundwater
Lab ID: 14E0462-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**515.5600**	0.000000		No unit	05/20/14 08:55	B4F0826	TW1
Depth to water (feet below land surface)	**3.830000**	0.000000		No unit	05/20/14 08:55	B4F0826	TW1
Depth to water (feet from measuring point)	**6.070000**	0.000000		No unit	05/20/14 08:55	B4F0826	TW1
Elevation of groundwater surface (Feet)	**529.2700**	0.000000		No unit	05/20/14 08:55	B4F0826	TW1
Method: SM2510B							
Specific Conductance	**1090**	0.00		uS/cm	05/20/14 08:55	B4F0826	TW1
Method: SM2550-B							
Temperature	**60.0**	1.00		°F	05/20/14 08:55	B4F0826	TW1
Method: SM4500-H							
pH	**6.99**	0.05		pH Units	05/20/14 08:55	B4F0826	TW1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Antimony	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Arsenic	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Barium	**0.355**	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Beryllium	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Boron	**4.36**	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Cadmium	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Chromium	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Cobalt	< 0.0313	0.0313		mg/L	05/28/14 12:23	B4E1213	CS
Copper	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Iron	**29.7**	0.125		mg/L	05/28/14 12:23	B4E1213	CS
Lead	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Manganese	**16.7**	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Nickel	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Selenium	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Silver	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Thallium	< 0.0625	0.0625		mg/L	05/28/14 12:23	B4E1213	CS
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	06/05/14 12:58	B4F0281	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**24.7**	2.00		mg/L	05/22/14 00:16	B4E1247	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-2
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:55
Matrix: Groundwater
Lab ID: 14E0462-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	05/22/14 00:16	B4E1247	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/22/14 00:16	B4E1247	wcicu
Sulfate	**289**	5.00		mg/L	05/22/14 00:16	B4E1247	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/12/14 09:49	B4F0528	JZ1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**946**	10.0		mg/L	05/23/14 16:00	B4E1181	LS3
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	05/22/14 15:31	B4E1029	JZ1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.332	0.332		ug/L	06/20/14 17:46	B4E1157	LP
Atrazine	< 0.332	0.332		ug/L	06/20/14 17:46	B4E1157	LP
Chlordane	< 0.332	0.332		ug/L	06/19/14 00:57	B4E1157	LP
Endrin	< 0.199	0.199		ug/L	06/19/14 00:57	B4E1157	LP
Lindane (gamma-BHC)	< 0.199	0.199		ug/L	06/19/14 00:57	B4E1157	LP
Heptachlor	< 0.199	0.199		ug/L	06/19/14 00:57	B4E1157	LP
Heptachlor epoxide	< 0.199	0.199		ug/L	06/19/14 00:57	B4E1157	LP
Methoxychlor	< 0.199	0.199		ug/L	06/20/14 17:46	B4E1157	LP
Simazine	< 0.332	0.332		ug/L	06/20/14 17:46	B4E1157	LP
Toxaphene	< 0.996	0.996		ug/L	06/19/14 00:57	B4E1157	LP
Surrogate: Decachlorobiphenyl				*Recovery: 54%*	*Limits: 30-135*	*06/19/14 00:57*	*B4E1157*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 43%*	*Limits: 44-124*	*06/19/14 00:57*	*B4E1157*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.166	0.166		ug/L	05/29/14 21:03	B4E1161	SYSTE
Aroclor 1221	< 0.332	0.332		ug/L	05/29/14 21:03	B4E1161	SYSTE
Aroclor 1232	< 0.166	0.166		ug/L	05/29/14 21:03	B4E1161	SYSTE
Aroclor 1242	< 0.166	0.166		ug/L	05/29/14 21:03	B4E1161	SYSTE
Aroclor 1248	< 0.166	0.166		ug/L	05/29/14 21:03	B4E1161	SYSTE
Aroclor 1254	< 0.166	0.166		ug/L	05/29/14 21:03	B4E1161	SYSTE
Aroclor 1260	< 0.166	0.166		ug/L	05/29/14 21:03	B4E1161	SYSTE
Surrogate: Decachlorobiphenyl				*Recovery: 98%*	*Limits: 40-135*	*05/29/14 21:03*	*B4E1161*	*SYSTE*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 61%*	*Limits: 13-133*	*05/29/14 21:03*	*B4E1161*	*SYSTE*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-2
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:55
Matrix: Groundwater
Lab ID: 14E0462-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Carbofuran	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.251	0.251		ug/L		05/27/14 23:00	B4E1008	EMT
2,4-D	< 0.251	0.251		ug/L		05/27/14 23:00	B4E1008	EMT
Dinoseb	< 0.251	0.251		ug/L		05/27/14 23:00	B4E1008	EMT
Picloram	< 0.251	0.251		ug/L		05/27/14 23:00	B4E1008	EMT
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 73%*	*Limits: 20-138*	*05/27/14 23:00*	*B4E1008*	*EMT*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Benzene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/23/14 21:21	B4F0045	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 21:21	B4F0045	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Dichloromethane (Methylene chloride)	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Styrene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/23/14 21:21	B4F0045	XN
Toluene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 21:21	B4F0045	XN
Trichloroethene	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/23/14 21:21	B4F0045	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/23/14 21:21	B4F0045	XN
Surrogate: Dibromofluoromethane				*Recovery: 96%*	*Limits: 80-119*	*05/23/14 21:21*	*B4F0045*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 95%*	*Limits: 81-118*	*05/23/14 21:21*	*B4F0045*	*XN*
Surrogate: Fluorobenzene				*Recovery: 97%*	*Limits: 80-116*	*05/23/14 21:21*	*B4F0045*	*XN*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*05/23/14 21:21*	*B4F0045*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 121%*	*Limits: 85-114*	*05/23/14 21:21*	*B4F0045*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 125%*	*Limits: 70-120*	*05/23/14 21:21*	*B4F0045*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-2
Report Date: 07/08/2014
Collection Date: 05/20/2014 08:55
Matrix: Groundwater
Lab ID: 14E0462-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0959	0.0959		ug/L		05/30/14 21:34	B4F0201	LP
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0959	0.0959		ug/L		05/30/14 21:34	B4F0201	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/15/14 14:04	B4F0656	lp
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 81%*	*Limits: 70-130*	*06/15/14 14:04*	*B4F0656*	*lp*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		05/29/14 14:37	B4E1233	MNN
Surrogate: 2,4,6-Tribromophenol				*Recovery: 115%*	*Limits: 20-200*	*05/29/14 14:37*	*B4E1233*	*MNN*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.659	0.659		ug/L		05/30/14 16:26	B4E1127	SJ
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.659	0.659		ug/L		05/30/14 16:26	B4E1127	SJ
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.659	0.659		ug/L		05/30/14 16:26	B4E1127	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		05/30/14 16:26	B4E1127	SJ
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	**1.35**	1.32		ug/L		05/30/14 16:26	B4E1127	SJ
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		05/30/14 16:26	B4E1127	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		05/30/14 16:26	B4E1127	SJ
Surrogate: 2-Fluorophenol			*S*	*Recovery: 2%*	*Limits: 19-119*	*05/30/14 16:26*	*B4E1127*	*SJ*
Surrogate: Phenol-d5			*S*	*Recovery: 1%*	*Limits: 10-115*	*05/30/14 16:26*	*B4E1127*	*SJ*
Surrogate: Nitrobenzene-d5			*S*	*Recovery: 38%*	*Limits: 44-120*	*05/30/14 16:26*	*B4E1127*	*SJ*
Surrogate: 2-Fluorobiphenyl			*S*	*Recovery: 42%*	*Limits: 44-119*	*05/30/14 16:26*	*B4E1127*	*SJ*
Surrogate: 2,4,6-Tribromophenol			*S*	*Recovery: 23%*	*Limits: 43-140*	*05/30/14 16:26*	*B4E1127*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 95%*	*Limits: 50-134*	*05/30/14 16:26*	*B4E1127*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses								
Method: SM7500								
Radium-226	**-0.11**	-0.04		pCi/L		06/03/14 00:00		UL
Radium-228	**1.6**	0.7		pCi/L		06/04/14 00:00		UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 09:30
Matrix: Groundwater
Lab ID: 14E0462-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**516.3500**	0.000000		No unit	05/20/14 09:30	B4F0826	TW1
Depth to water (feet below land surface)	**5.000000**	0.000000		No unit	05/20/14 09:30	B4F0826	TW1
Depth to water (feet from measuring point)	**6.700000**	0.000000		No unit	05/20/14 09:30	B4F0826	TW1
Elevation of groundwater surface (Feet)	**528.7000**	0.000000		No unit	05/20/14 09:30	B4F0826	TW1
Method: SM2510B							
Specific Conductance	**918**	0.00		uS/cm	05/20/14 09:30	B4F0826	TW1
Method: SM2550-B							
Temperature	**61.6**	1.00		°F	05/20/14 09:30	B4F0826	TW1
Method: SM4500-H							
pH	**7.09**	0.05		pH Units	05/20/14 09:30	B4F0826	TW1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Antimony	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Arsenic	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Barium	**0.144**	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Beryllium	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Boron	**19.3**	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Cadmium	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Chromium	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Cobalt	< 0.0313	0.0313		mg/L	05/27/14 15:54	B4E1182	CS
Copper	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Iron	**16.9**	0.125		mg/L	05/27/14 15:54	B4E1182	CS
Lead	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Manganese	**7.73**	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Nickel	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Selenium	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Silver	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Thallium	< 0.0625	0.0625		mg/L	05/27/14 15:54	B4E1182	CS
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	06/05/14 12:58	B4F0281	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**41.6**	2.00		mg/L	05/22/14 00:59	B4E1247	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 09:30
Matrix: Groundwater
Lab ID: 14E0462-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	05/22/14 00:59	B4E1247	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/22/14 00:59	B4E1247	wcicu
Sulfate	**343**	50.0		mg/L	05/28/14 19:40	B4F0217	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/12/14 09:49	B4F0528	JZ1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**872**	10.0		mg/L	05/23/14 16:00	B4E1181	LS3
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	05/22/14 15:36	B4E1029	JZ1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.332	0.332		ug/L	06/20/14 18:32	B4E1157	LP
Atrazine	< 0.332	0.332		ug/L	06/20/14 18:32	B4E1157	LP
Chlordane	< 0.332	0.332		ug/L	06/19/14 01:43	B4E1157	LP
Endrin	< 0.199	0.199		ug/L	06/19/14 01:43	B4E1157	LP
Lindane (gamma-BHC)	< 0.199	0.199		ug/L	06/19/14 01:43	B4E1157	LP
Heptachlor	< 0.199	0.199		ug/L	06/19/14 01:43	B4E1157	LP
Heptachlor epoxide	< 0.199	0.199		ug/L	06/19/14 01:43	B4E1157	LP
Methoxychlor	< 0.199	0.199		ug/L	06/20/14 18:32	B4E1157	LP
Simazine	< 0.332	0.332		ug/L	06/20/14 18:32	B4E1157	LP
Toxaphene	< 0.995	0.995		ug/L	06/19/14 01:43	B4E1157	LP
Surrogate: Decachlorobiphenyl				*Recovery: 72%*	*Limits: 30-135*	*06/19/14 01:43*	*B4E1157*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 44-124*	*06/19/14 01:43*	*B4E1157*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.166	0.166		ug/L	05/29/14 21:30	B4E1161	SYSTE
Aroclor 1221	< 0.332	0.332		ug/L	05/29/14 21:30	B4E1161	SYSTE
Aroclor 1232	< 0.166	0.166		ug/L	05/29/14 21:30	B4E1161	SYSTE
Aroclor 1242	< 0.166	0.166		ug/L	05/29/14 21:30	B4E1161	SYSTE
Aroclor 1248	< 0.166	0.166		ug/L	05/29/14 21:30	B4E1161	SYSTE
Aroclor 1254	< 0.166	0.166		ug/L	05/29/14 21:30	B4E1161	SYSTE
Aroclor 1260	< 0.166	0.166		ug/L	05/29/14 21:30	B4E1161	SYSTE
Surrogate: Decachlorobiphenyl				*Recovery: 81%*	*Limits: 40-135*	*05/29/14 21:30*	*B4E1161*	*SYSTE*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 13-133*	*05/29/14 21:30*	*B4E1161*	*SYSTE*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 09:30
Matrix: Groundwater
Lab ID: 14E0462-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Carbofuran	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		05/28/14 13:51	B4E1148	EMT
2,4-D	< 0.249	0.249		ug/L		05/28/14 13:51	B4E1148	EMT
Dinoseb	< 0.249	0.249		ug/L		05/28/14 13:51	B4E1148	EMT
Picloram	< 0.249	0.249		ug/L		05/28/14 13:51	B4E1148	EMT
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 90%*	*Limits: 20-138*	*05/28/14 13:51*	*B4E1148*	*EMT*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Benzene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/23/14 21:53	B4F0045	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 21:53	B4F0045	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Dichloromethane (Methylene chloride)	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Styrene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/23/14 21:53	B4F0045	XN
Toluene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 21:53	B4F0045	XN
Trichloroethene	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/23/14 21:53	B4F0045	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/23/14 21:53	B4F0045	XN
Surrogate: Dibromofluoromethane				*Recovery: 110%*	*Limits: 80-119*	*05/23/14 21:53*	*B4F0045*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 102%*	*Limits: 81-118*	*05/23/14 21:53*	*B4F0045*	*XN*
Surrogate: Fluorobenzene				*Recovery: 97%*	*Limits: 80-116*	*05/23/14 21:53*	*B4F0045*	*XN*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 89-112*	*05/23/14 21:53*	*B4F0045*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 126%*	*Limits: 85-114*	*05/23/14 21:53*	*B4F0045*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 127%*	*Limits: 70-120*	*05/23/14 21:53*	*B4F0045*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-3
Report Date: 07/08/2014
Collection Date: 05/20/2014 09:30
Matrix: Groundwater
Lab ID: 14E0462-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		05/30/14 22:05	B4F0201	LP
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0946	0.0946		ug/L		05/30/14 22:05	B4F0201	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/04/14 17:18	B4F0105	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 72%*	*Limits: 70-130*	*06/04/14 17:18*	*B4F0105*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		05/29/14 15:21	B4E1233	MNN
Surrogate: 2,4,6-Tribromophenol				*Recovery: 113%*	*Limits: 20-200*	*05/29/14 15:21*	*B4E1233*	*MNN*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.660	0.660		ug/L		05/30/14 17:49	B4E1127	SJ
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.660	0.660		ug/L		05/30/14 17:49	B4E1127	SJ
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.660	0.660		ug/L		05/30/14 17:49	B4E1127	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		05/30/14 17:49	B4E1127	SJ
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 1.32	1.32		ug/L		05/30/14 17:49	B4E1127	SJ
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		05/30/14 17:49	B4E1127	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		05/30/14 17:49	B4E1127	SJ
Surrogate: 2-Fluorophenol			*S*	*Recovery: 4%*	*Limits: 19-119*	*05/30/14 17:49*	*B4E1127*	*SJ*
Surrogate: Phenol-d5			*S*	*Recovery: 3%*	*Limits: 10-115*	*05/30/14 17:49*	*B4E1127*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 57%*	*Limits: 44-120*	*05/30/14 17:49*	*B4E1127*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 57%*	*Limits: 44-119*	*05/30/14 17:49*	*B4E1127*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 44%*	*Limits: 43-140*	*05/30/14 17:49*	*B4E1127*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 85%*	*Limits: 50-134*	*05/30/14 17:49*	*B4E1127*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Subcontracted Analyses							
Method: SM7500							
Radium-226	**-2**	-4.1		pCi/L	06/03/14 00:00		UL
Radium-228	**0.77**	0.78		pCi/L	06/04/14 00:00		UL

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-4
Report Date: 07/08/2014
Collection Date: 05/20/2014 10:30
Matrix: Groundwater
Lab ID: 14E0462-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**496.2200**	0.000000		No unit	05/20/14 10:30	B4F0826	TW1
Depth to water (feet below land surface)	**5.900000**	0.000000		No unit	05/20/14 10:30	B4F0826	TW1
Depth to water (feet from measuring point)	**11.20000**	0.000000		No unit	05/20/14 10:30	B4F0826	TW1
Elevation of groundwater surface (Feet)	**548.0000**	0.000000		No unit	05/20/14 10:30	B4F0826	TW1
Method: SM2510B							
Specific Conductance	**792**	0.00		uS/cm	05/20/14 10:30	B4F0826	TW1
Method: SM2550-B							
Temperature	**61.7**	1.00		°F	05/20/14 10:30	B4F0826	TW1
Method: SM4500-H							
pH	**7.31**	0.05		pH Units	05/20/14 10:30	B4F0826	TW1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Antimony	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Arsenic	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Barium	**0.352**	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Beryllium	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Boron	**0.0899**	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Cadmium	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Chromium	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Cobalt	< 0.0313	0.0313		mg/L	05/28/14 12:27	B4E1213	CS
Copper	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Iron	**10.1**	0.125		mg/L	05/28/14 12:27	B4E1213	CS
Lead	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Manganese	**0.246**	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Nickel	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Selenium	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Silver	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Thallium	< 0.0625	0.0625		mg/L	05/28/14 12:27	B4E1213	CS
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	06/05/14 12:58	B4F0281	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**11.2**	2.00		mg/L	05/22/14 03:50	B4E1247	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-4
Report Date: 07/08/2014
Collection Date: 05/20/2014 10:30
Matrix: Groundwater
Lab ID: 14E0462-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	05/22/14 03:50	B4E1247	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/22/14 03:50	B4E1247	wcicu
Sulfate	< 5.00	5.00		mg/L	05/22/14 03:50	B4E1247	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/12/14 09:49	B4F0528	JZ1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**510**	10.0		mg/L	05/23/14 16:00	B4E1181	LS3
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	05/22/14 15:36	B4E1029	JZ1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.331	0.331		ug/L	06/20/14 19:19	B4E1157	LP
Atrazine	< 0.331	0.331		ug/L	06/20/14 19:19	B4E1157	LP
Chlordane	< 0.331	0.331		ug/L	06/19/14 02:30	B4E1157	LP
Endrin	< 0.199	0.199		ug/L	06/19/14 02:30	B4E1157	LP
Lindane (gamma-BHC)	< 0.199	0.199		ug/L	06/19/14 02:30	B4E1157	LP
Heptachlor	< 0.199	0.199		ug/L	06/19/14 02:30	B4E1157	LP
Heptachlor epoxide	< 0.199	0.199		ug/L	06/19/14 02:30	B4E1157	LP
Methoxychlor	< 0.199	0.199		ug/L	06/20/14 19:19	B4E1157	LP
Simazine	< 0.331	0.331		ug/L	06/20/14 19:19	B4E1157	LP
Toxaphene	< 0.993	0.993		ug/L	06/19/14 02:30	B4E1157	LP
Surrogate: Decachlorobiphenyl				*Recovery: 80%* *Limits: 30-135*	*06/19/14 02:30*	*B4E1157*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 78%* *Limits: 44-124*	*06/19/14 02:30*	*B4E1157*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.166	0.166		ug/L	05/29/14 21:57	B4E1161	SYSTE
Aroclor 1221	< 0.331	0.331		ug/L	05/29/14 21:57	B4E1161	SYSTE
Aroclor 1232	< 0.166	0.166		ug/L	05/29/14 21:57	B4E1161	SYSTE
Aroclor 1242	< 0.166	0.166		ug/L	05/29/14 21:57	B4E1161	SYSTE
Aroclor 1248	< 0.166	0.166		ug/L	05/29/14 21:57	B4E1161	SYSTE
Aroclor 1254	< 0.166	0.166		ug/L	05/29/14 21:57	B4E1161	SYSTE
Aroclor 1260	< 0.166	0.166		ug/L	05/29/14 21:57	B4E1161	SYSTE
Surrogate: Decachlorobiphenyl				*Recovery: 63%* *Limits: 40-135*	*05/29/14 21:57*	*B4E1161*	*SYSTE*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 37%* *Limits: 13-133*	*05/29/14 21:57*	*B4E1161*	*SYSTE*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-4
Report Date: 07/08/2014
Collection Date: 05/20/2014 10:30
Matrix: Groundwater
Lab ID: 14E0462-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Carbofuran	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		05/28/14 14:33	B4E1148	EMT
2,4-D	< 0.249	0.249		ug/L		05/28/14 14:33	B4E1148	EMT
Dinoseb	< 0.249	0.249		ug/L		05/28/14 14:33	B4E1148	EMT
Picloram	< 0.249	0.249		ug/L		05/28/14 14:33	B4E1148	EMT
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 73%*	*Limits: 20-138*	*05/28/14 14:33*	*B4E1148*	*EMT*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Benzene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/23/14 22:26	B4F0045	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 22:26	B4F0045	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Dichloromethane (Methylene chloride)	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Styrene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/23/14 22:26	B4F0045	XN
Toluene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 22:26	B4F0045	XN
Trichloroethene	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/23/14 22:26	B4F0045	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/23/14 22:26	B4F0045	XN
Surrogate: Dibromofluoromethane				*Recovery: 110%*	*Limits: 80-119*	*05/23/14 22:26*	*B4F0045*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 98%*	*Limits: 81-118*	*05/23/14 22:26*	*B4F0045*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/23/14 22:26*	*B4F0045*	*XN*
Surrogate: Toluene-d8				*Recovery: 91%*	*Limits: 89-112*	*05/23/14 22:26*	*B4F0045*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 116%*	*Limits: 85-114*	*05/23/14 22:26*	*B4F0045*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 129%*	*Limits: 70-120*	*05/23/14 22:26*	*B4F0045*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-4
Report Date: 07/08/2014
Collection Date: 05/20/2014 10:30
Matrix: Groundwater
Lab ID: 14E0462-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		05/30/14 22:36	B4F0201	LP
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0972	0.0972		ug/L		05/30/14 22:36	B4F0201	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/04/14 18:02	B4F0105	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 59%*	*Limits: 70-130*	*06/04/14 18:02*	*B4F0105*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		05/29/14 16:05	B4E1233	MNN
Surrogate: 2,4,6-Tribromophenol				*Recovery: 120%*	*Limits: 20-200*	*05/29/14 16:05*	*B4E1233*	*MNN*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.662	0.662		ug/L		05/30/14 17:08	B4E1127	SJ
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.662	0.662		ug/L		05/30/14 17:08	B4E1127	SJ
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.662	0.662		ug/L		05/30/14 17:08	B4E1127	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		05/30/14 17:08	B4E1127	SJ
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 1.32	1.32		ug/L		05/30/14 17:08	B4E1127	SJ
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		05/30/14 17:08	B4E1127	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		05/30/14 17:08	B4E1127	SJ
Surrogate: 2-Fluorophenol				*Recovery: 22%*	*Limits: 19-119*	*05/30/14 17:08*	*B4E1127*	*SJ*
Surrogate: Phenol-d5				*Recovery: 15%*	*Limits: 10-115*	*05/30/14 17:08*	*B4E1127*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 52%*	*Limits: 44-120*	*05/30/14 17:08*	*B4E1127*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 54%*	*Limits: 44-119*	*05/30/14 17:08*	*B4E1127*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 58%*	*Limits: 43-140*	*05/30/14 17:08*	*B4E1127*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 91%*	*Limits: 50-134*	*05/30/14 17:08*	*B4E1127*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Subcontracted Analyses							
Method: SM7500							
Radium-226	**1.2**	0.8		pCi/L	06/03/14 00:00		UL
Radium-228	**0.53**	0.6		pCi/L	06/04/14 00:00		UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-5
Report Date: 07/08/2014
Collection Date: 05/20/2014 12:50
Matrix: Groundwater
Lab ID: 14E0462-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**552.5100**	0.000000		No unit	05/20/14 12:50	B4F0826	TW1
Depth to water (feet below land surface)	**12.70000**	0.000000		No unit	05/20/14 12:50	B4F0826	TW1
Depth to water (feet from measuring point)	**15.00000**	0.000000		No unit	05/20/14 12:50	B4F0826	TW1
Elevation of groundwater surface (Feet)	**568.9000**	0.000000		No unit	05/20/14 12:50	B4F0826	TW1
Method: SM2510B							
Specific Conductance	**499**	0.00		uS/cm	05/20/14 12:50	B4F0826	TW1
Method: SM2550-B							
Temperature	**57.1**	1.00		°F	05/20/14 12:50	B4F0826	TW1
Method: SM4500-H							
pH	**7.53**	0.05		pH Units	05/20/14 12:50	B4F0826	TW1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Antimony	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Arsenic	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Barium	**0.278**	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Beryllium	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Boron	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Cadmium	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Chromium	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Cobalt	< 0.0313	0.0313		mg/L	05/28/14 12:44	B4E1213	CS
Copper	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Iron	**41.4**	0.125		mg/L	05/28/14 12:44	B4E1213	CS
Lead	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Manganese	**1.04**	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Nickel	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Selenium	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Silver	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Thallium	< 0.0625	0.0625		mg/L	05/28/14 12:44	B4E1213	CS
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	06/05/14 12:58	B4F0281	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**3.29**	2.00		mg/L	05/22/14 04:33	B4E1247	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-5
Report Date: 07/08/2014
Collection Date: 05/20/2014 12:50
Matrix: Groundwater
Lab ID: 14E0462-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Fluoride	< 0.500	0.500		mg/L		05/22/14 04:33	B4E1247	wcicu
Nitrogen, Nitrate	**0.706**	0.500		mg/L		05/22/14 04:33	B4E1247	wcicu
Sulfate	**62.5**	5.00		mg/L		05/22/14 04:33	B4E1247	wcicu
Wet Chemistry								
Method: E420.1 Rev.1978 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		06/12/14 09:49	B4F0528	JZ1
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**544**	10.0		mg/L		05/23/14 16:00	B4E1181	LS3
Method: SW9010Bby Aquachem / SW9010B								
Cyanide	< 0.0100	0.0100		mg/L		05/28/14 11:26	B4E1202	JZ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.333	0.333		ug/L		06/20/14 20:05	B4E1157	LP
Atrazine	< 0.333	0.333		ug/L		06/20/14 20:05	B4E1157	LP
Chlordane	< 0.333	0.333		ug/L		06/19/14 03:16	B4E1157	LP
Endrin	< 0.200	0.200		ug/L		06/19/14 03:16	B4E1157	LP
Lindane (gamma-BHC)	< 0.200	0.200		ug/L		06/19/14 03:16	B4E1157	LP
Heptachlor	< 0.200	0.200		ug/L		06/19/14 03:16	B4E1157	LP
Heptachlor epoxide	< 0.200	0.200		ug/L		06/19/14 03:16	B4E1157	LP
Methoxychlor	< 0.200	0.200		ug/L		06/20/14 20:05	B4E1157	LP
Simazine	< 0.333	0.333		ug/L		06/20/14 20:05	B4E1157	LP
Toxaphene	< 0.999	0.999		ug/L		06/19/14 03:16	B4E1157	LP
Surrogate: Decachlorobiphenyl				*Recovery: 43%*	*Limits: 30-135*	*06/19/14 03:16*	*B4E1157*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 42%*	*Limits: 44-124*	*06/19/14 03:16*	*B4E1157*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.167	0.167		ug/L		05/29/14 22:24	B4E1161	SYSTE
Aroclor 1221	< 0.333	0.333		ug/L		05/29/14 22:24	B4E1161	SYSTE
Aroclor 1232	< 0.167	0.167		ug/L		05/29/14 22:24	B4E1161	SYSTE
Aroclor 1242	< 0.167	0.167		ug/L		05/29/14 22:24	B4E1161	SYSTE
Aroclor 1248	< 0.167	0.167		ug/L		05/29/14 22:24	B4E1161	SYSTE
Aroclor 1254	< 0.167	0.167		ug/L		05/29/14 22:24	B4E1161	SYSTE
Aroclor 1260	< 0.167	0.167		ug/L		05/29/14 22:24	B4E1161	SYSTE
Surrogate: Decachlorobiphenyl				*Recovery: 91%*	*Limits: 40-135*	*05/29/14 22:24*	*B4E1161*	*SYSTE*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 52%*	*Limits: 13-133*	*05/29/14 22:24*	*B4E1161*	*SYSTE*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-5
Report Date: 07/08/2014
Collection Date: 05/20/2014 12:50
Matrix: Groundwater
Lab ID: 14E0462-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Carbofuran	< 2.00	2.00		ug/L		06/04/14 10:49	B4F0257	LBI
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.250	0.250		ug/L		05/28/14 15:15	B4E1148	EMT
2,4-D	< 0.250	0.250		ug/L		05/28/14 15:15	B4E1148	EMT
Dinoseb	< 0.250	0.250		ug/L		05/28/14 15:15	B4E1148	EMT
Picloram	< 0.250	0.250		ug/L		05/28/14 15:15	B4E1148	EMT
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 20-138*	*05/28/14 15:15*	*B4E1148*	*EMT*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Benzene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/23/14 22:58	B4F0045	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 22:58	B4F0045	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Dichloromethane (Methylene chloride)	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Styrene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/23/14 22:58	B4F0045	XN
Toluene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/23/14 22:58	B4F0045	XN
Trichloroethene	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/23/14 22:58	B4F0045	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/23/14 22:58	B4F0045	XN
Surrogate: Dibromofluoromethane				*Recovery: 108%*	*Limits: 80-119*	*05/23/14 22:58*	*B4F0045*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 103%*	*Limits: 81-118*	*05/23/14 22:58*	*B4F0045*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/23/14 22:58*	*B4F0045*	*XN*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*05/23/14 22:58*	*B4F0045*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 124%*	*Limits: 85-114*	*05/23/14 22:58*	*B4F0045*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 127%*	*Limits: 70-120*	*05/23/14 22:58*	*B4F0045*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Client Sample ID: AP-5
Report Date: 07/08/2014
Collection Date: 05/20/2014 12:50
Matrix: Groundwater
Lab ID: 14E0462-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0959	0.0959		ug/L		05/30/14 23:07	B4F0201	LP
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0959	0.0959		ug/L		05/30/14 23:07	B4F0201	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/04/14 12:08	B4F0105	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 92%*	*Limits: 70-130*	*06/04/14 12:08*	*B4F0105*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		05/29/14 18:16	B4E1233	MNN
Surrogate: 2,4,6-Tribromophenol				*Recovery: 85%*	*Limits: 20-200*	*05/29/14 18:16*	*B4E1233*	*MNN*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.659	0.659		ug/L		05/30/14 18:30	B4E1127	SJ
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.659	0.659		ug/L		05/30/14 18:30	B4E1127	SJ
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.659	0.659		ug/L		05/30/14 18:30	B4E1127	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		05/30/14 18:30	B4E1127	SJ
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 1.32	1.32		ug/L		05/30/14 18:30	B4E1127	SJ
Hexachlorocyclopentadiene	< 3.29	3.29		ug/L		05/30/14 18:30	B4E1127	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		05/30/14 18:30	B4E1127	SJ
Surrogate: 2-Fluorophenol				*Recovery: 21%*	*Limits: 19-119*	*05/30/14 18:30*	*B4E1127*	*SJ*
Surrogate: Phenol-d5				*Recovery: 14%*	*Limits: 10-115*	*05/30/14 18:30*	*B4E1127*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 44-120*	*05/30/14 18:30*	*B4E1127*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 51%*	*Limits: 44-119*	*05/30/14 18:30*	*B4E1127*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 47%*	*Limits: 43-140*	*05/30/14 18:30*	*B4E1127*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 85%*	*Limits: 50-134*	*05/30/14 18:30*	*B4E1127*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses								
Method: SM7500								
Radium-226	**-0.03**	-0.02		pCi/L		06/03/14 00:00		UL
Radium-228	**0.95**	0.48		pCi/L		06/04/14 00:00		UL

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Dates Report

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Date: 07/08/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14E0462-01	AW-3	05/20/2014 11 25	Groundwater	Subcontracted Analyses		05/30/2014 00:00	06/04/2014 00 00	'[none]'
				Subcontracted Analyses		05/30/2014 00:00	06/03/2014 00 00	
				Cyanide, Total		05/21/2014 12:15	05/22/2014 07 59	B4E0980
				Herbicides by HPLC		05/22/2014 16:00	05/27/2014 21 36	B4E1008
				Semivolatile Organic Compounds by GC/MS		05/22/2014 15:00	05/24/2014 15 56	B4E1078
				Chromium, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	B4E1092
				Thallium, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Selenium, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Antimony, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Lead, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Nickel, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Manganese, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Copper, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Cadmium, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Beryllium, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Barium, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Boron, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Arsenic, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Silver, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Cobalt, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Iron, Total ICP-AES		05/23/2014 12:00	05/29/2014 13 26	
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/18/2014 23 23	B4E1157
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/20/2014 16:12	
				Polychlorinated Biphenyls by GC/ECD		05/23/2014 09:00	05/29/2014 20 09	B4E1161
				Solids, Total Dissolved (TDS)		05/23/2014 16:00	05/23/2014 16 00	B4E1181
				EPA 548.1 Endothall		05/24/2014 10:00	05/29/2014 13:10	B4E1233
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/20/2014 14:33	05/21/2014 22 50	B4E1247
				Fluoride, Anions by Ion Chromatography		05/20/2014 14:33	05/21/2014 22 50	
				Chloride, Anions by Ion Chromatography		05/20/2014 14:33	05/21/2014 22 50	
				Sulfate (SO4), Anions by Ion Chromatography		05/20/2014 14:33	05/21/2014 22 50	
				Volatile Organic Compounds by GC/MS		05/23/2014 12:02	05/23/2014 20:17	B4F0045
				EPA 552.1 Dalapon		06/03/2014 08:00	06/04/2014 15 06	B4F0105
				EPA 504.1 DBCP/EDB		05/30/2014 08:00	05/30/2014 20 00	B4F0201
				EPA 531.1 Carbamates		06/04/2014 09:00	06/04/2014 10:49	B4F0257
				Mercury, Total CCVA		06/05/2014 09:00	06/05/2014 12 58	B4F0281
				Phenols, Total		06/12/2014 06:55	06/12/2014 09:49	B4F0528
14E0462-02	AP-1	05/20/2014 08:10		Subcontracted Analyses		05/30/2014 00:00	06/04/2014 00 00	'[none]'
				Subcontracted Analyses		05/30/2014 00:00	06/03/2014 00 00	
				Herbicides by HPLC		05/22/2014 16:00	05/27/2014 22:18	B4E1008
				Cyanide, Total		05/22/2014 11:45	05/22/2014 15 31	B4E1029
				Semivolatile Organic Compounds by GC/MS		05/23/2014 13:30	05/30/2014 15:45	B4E1127
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/19/2014 00:10	B4E1157
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/20/2014 16 59	
				Polychlorinated Biphenyls by GC/ECD		05/23/2014 09:00	05/29/2014 20 36	B4E1161
				Solids, Total Dissolved (TDS)		05/23/2014 16:00	05/23/2014 16 00	B4E1181
				Boron, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	B4E1182

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Date: 07/08/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14E0462-02	AP-1	05/20/2014 08:10	Groundwater	Iron, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	B4E1182
				Thallium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Selenium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Antimony, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Lead, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Nickel, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Manganese, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Copper, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Chromium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Cobalt, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Cadmium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Barium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Arsenic, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Silver, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				Beryllium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 51	
				EPA 548.1 Endothall		05/24/2014 10:00	05/29/2014 13 54	B4E1233
				Chloride, Anions by Ion Chromatography		05/20/2014 14:33	05/21/2014 23 33	B4E1247
				Fluoride, Anions by Ion Chromatography		05/20/2014 14:33	05/21/2014 23 33	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/20/2014 14:33	05/21/2014 23 33	
				Volatile Organic Compounds by GC/MS		05/23/2014 12:02	05/23/2014 20:49	B4F0045
				EPA 552.1 Dalapon		06/03/2014 08:00	06/04/2014 15 50	B4F0105
				EPA 504.1 DBCP/EDB		05/30/2014 08:00	05/30/2014 21 02	B4F0201
				Sulfate (SO4), Anions by Ion Chromatography		05/27/2014 17:11	05/28/2014 18 57	B4F0217
				EPA 531.1 Carbamates		06/04/2014 09:00	06/04/2014 10:49	B4F0257
				Mercury, Total CCVA		06/05/2014 09:00	06/05/2014 12 58	B4F0281
				Phenols, Total		06/12/2014 06:55	06/12/2014 09:49	B4F0528
				Conductance, Field		05/20/2014 08:10	05/20/2014 08:10	B4F0826
				pH, Tested On Site		05/20/2014 08:10	05/20/2014 08:10	
				Temperature in F, Field		05/20/2014 08:10	05/20/2014 08:10	
				Groundwater Parameters		05/20/2014 08:10	05/20/2014 08:10	
14E0462-03	AP-2	05/20/2014 08 55		Subcontracted Analyses		05/30/2014 00:00	06/04/2014 00 00	'[none]'
				Subcontracted Analyses		05/30/2014 00:00	06/03/2014 00 00	
				Herbicides by HPLC		05/22/2014 16:00	05/27/2014 23 00	B4E1008
				Cyanide, Total		05/22/2014 11:45	05/22/2014 15 31	B4E1029
				Semivolatile Organic Compounds by GC/MS		05/23/2014 13:30	05/30/2014 16 26	B4E1127
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/19/2014 00 57	B4E1157
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/20/2014 17:46	
				Polychlorinated Biphenyls by GC/ECD		05/23/2014 09:00	05/29/2014 21 03	B4E1161
				Solids, Total Dissolved (TDS)		05/23/2014 16:00	05/23/2014 16 00	B4E1181
				Manganese, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	B4E1213
				Thallium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Selenium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Antimony, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Nickel, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Iron, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Copper, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Boron, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Lead, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Arsenic, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	

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Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Date: 07/08/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14E0462-03	AP-2	05/20/2014 08 55	Groundwater	Chromium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	B4E1213
				Barium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Beryllium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Cadmium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Cobalt, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				Silver, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 23	
				EPA 548.1 Endothall		05/24/2014 10:00	05/29/2014 14 37	B4E1233
				Chloride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 00:16	B4E1247
				Fluoride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 00:16	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/20/2014 14:33	05/22/2014 00:16	
				Sulfate (SO4), Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 00:16	
				Volatile Organic Compounds by GC/MS		05/23/2014 12:02	05/23/2014 21 21	B4F0045
				EPA 504.1 DBCP/EDB		05/30/2014 08:00	05/30/2014 21 34	B4F0201
				EPA 531.1 Carbamates		06/04/2014 09:00	06/04/2014 10:49	B4F0257
				Mercury, Total CCVA		06/05/2014 09:00	06/05/2014 12 58	B4F0281
				Phenols, Total		06/12/2014 06:55	06/12/2014 09:49	B4F0528
				EPA 552.1 Dalapon		06/14/2014 10:00	06/15/2014 14 04	B4F0656
				Temperature in F, Field		05/20/2014 08:55	05/20/2014 08 55	B4F0826
				Groundwater Parameters		05/20/2014 08:55	05/20/2014 08 55	
				pH, Tested On Site		05/20/2014 08:55	05/20/2014 08 55	
				Conductance, Field		05/20/2014 08:55	05/20/2014 08 55	
14E0462-04	AP-3	05/20/2014 09 30		Subcontracted Analyses		05/30/2014 00:00	06/03/2014 00 00	'[none]'
				Subcontracted Analyses		05/30/2014 00:00	06/04/2014 00 00	
				Cyanide, Total		05/22/2014 11:45	05/22/2014 15 36	B4E1029
				Semivolatile Organic Compounds by GC/MS		05/23/2014 13:30	05/30/2014 17:49	B4E1127
				Herbicides by HPLC		05/25/2014 08:00	05/28/2014 13 51	B4E1148
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/19/2014 01:43	B4E1157
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/20/2014 18 32	
				Polychlorinated Biphenyls by GC/ECD		05/23/2014 09:00	05/29/2014 21 30	B4E1161
				Solids, Total Dissolved (TDS)		05/23/2014 16:00	05/23/2014 16 00	B4E1181
				Copper, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	B4E1182
				Nickel, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Lead, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Antimony, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Silver, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Thallium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Selenium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Cobalt, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Barium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Boron, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Manganese, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Cadmium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Beryllium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Chromium, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Arsenic, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				Iron, Total ICP-AES		05/27/2014 14:00	05/27/2014 15 54	
				EPA 548.1 Endothall		05/24/2014 10:00	05/29/2014 15 21	B4E1233
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/20/2014 14:33	05/22/2014 00 59	B4E1247

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Client: City, Water, Light & Power

Project: List G20
2nd Quarter 2014 Sampling Event

Work Order: 14E0462

Date: 07/08/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14E0462-04	AP-3	05/20/2014 09 30	Groundwater	Chloride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 00 59	B4E1247
				Fluoride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 00 59	
				Volatile Organic Compounds by GC/MS		05/23/2014 12:02	05/23/2014 21 53	B4F0045
				EPA 552.1 Dalapon		06/03/2014 08:00	06/04/2014 17:18	B4F0105
				EPA 504.1 DBCP/EDB		05/30/2014 08:00	05/30/2014 22 05	B4F0201
				Sulfate (SO4), Anions by Ion Chromatography		05/27/2014 17:11	05/28/2014 19:40	B4F0217
				EPA 531.1 Carbamates		06/04/2014 09:00	06/04/2014 10:49	B4F0257
				Mercury, Total CCVA		06/05/2014 09:00	06/05/2014 12 58	B4F0281
				Phenols, Total		06/12/2014 06:55	06/12/2014 09:49	B4F0528
				Conductance, Field		05/20/2014 09:30	05/20/2014 09 30	B4F0826
				pH, Tested On Site		05/20/2014 09:30	05/20/2014 09 30	
				Groundwater Parameters		05/20/2014 09:30	05/20/2014 09 30	
				Temperature in F, Field		05/20/2014 09:30	05/20/2014 09 30	
14E0462-05	AP-4	05/20/2014 10 30		Subcontracted Analyses		05/30/2014 00:00	06/03/2014 00 00	'[none]'
				Subcontracted Analyses		05/30/2014 00:00	06/04/2014 00 00	
				Cyanide, Total		05/22/2014 11:45	05/22/2014 15 36	B4E1029
				Semivolatile Organic Compounds by GC/MS		05/23/2014 13:30	05/30/2014 17 08	B4E1127
				Herbicides by HPLC		05/25/2014 08:00	05/28/2014 14 33	B4E1148
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/20/2014 19:19	B4E1157
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/19/2014 02 30	
				Polychlorinated Biphenyls by GC/ECD		05/23/2014 09:00	05/29/2014 21 57	B4E1161
				Solids, Total Dissolved (TDS)		05/23/2014 16:00	05/23/2014 16 00	B4E1181
				Manganese, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	B4E1213
				Thallium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Selenium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Antimony, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Nickel, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Iron, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Copper, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Silver, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Cobalt, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Cadmium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Lead, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Beryllium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Barium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Boron, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Arsenic, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				Chromium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12 27	
				EPA 548.1 Endothall		05/24/2014 10:00	05/29/2014 16 05	B4E1233
				Chloride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 03 50	B4E1247
				Fluoride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 03 50	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/20/2014 14:33	05/22/2014 03 50	
				Sulfate (SO4), Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 03 50	
				Volatile Organic Compounds by GC/MS		05/23/2014 12:02	05/23/2014 22 26	B4F0045
				EPA 552.1 Dalapon		06/03/2014 08:00	06/04/2014 18 02	B4F0105
				EPA 504.1 DBCP/EDB		05/30/2014 08:00	05/30/2014 22 36	B4F0201

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Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Date: 07/08/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14E0462-05	AP-4	05/20/2014 10 30	Groundwater	EPA 531.1 Carbamates		06/04/2014 09:00	06/04/2014 10:49	B4F0257
				Mercury, Total CCVA		06/05/2014 09:00	06/05/2014 12 58	B4F0281
				Phenols, Total		06/12/2014 06:55	06/12/2014 09:49	B4F0528
				Temperature in F, Field		05/20/2014 10:30	05/20/2014 10 30	B4F0826
				Conductance, Field		05/20/2014 10:30	05/20/2014 10 30	
				Groundwater Parameters		05/20/2014 10:30	05/20/2014 10 30	
				pH, Tested On Site		05/20/2014 10:30	05/20/2014 10 30	
14E0462-06	AP-5	05/20/2014 12 50		Subcontracted Analyses		05/30/2014 00:00	06/04/2014 00 00	'[none]'
				Subcontracted Analyses		05/30/2014 00:00	06/03/2014 00 00	
				Semivolatile Organic Compounds by GC/MS		05/23/2014 13:30	05/30/2014 18 30	B4E1127
				Herbicides by HPLC		05/25/2014 08:00	05/28/2014 15:15	B4E1148
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/20/2014 20 05	B4E1157
				Organochlorine Pesticides by GC/ECD		05/23/2014 09:00	06/19/2014 03:16	
				Polychlorinated Biphenyls by GC/ECD		05/23/2014 09:00	05/29/2014 22 24	B4E1161
				Solids, Total Dissolved (TDS)		05/23/2014 16:00	05/23/2014 16 00	B4E1181
				Cyanide, Total		05/28/2014 08:00	05/28/2014 11 26	B4E1202
				Copper, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	B4E1213
				Selenium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Antimony, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Lead, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Nickel, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Iron, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Thallium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Silver, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Manganese, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Chromium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Arsenic, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Boron, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Barium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Beryllium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Cadmium, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				Cobalt, Total ICP-AES		05/28/2014 09:30	05/28/2014 12:44	
				EPA 548.1 Endothall		05/24/2014 10:00	05/29/2014 18:16	B4E1233
				Sulfate (SO4), Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 04 33	B4E1247
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/20/2014 14:33	05/22/2014 04 33	
				Fluoride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 04 33	
				Chloride, Anions by Ion Chromatography		05/20/2014 14:33	05/22/2014 04 33	
				Volatile Organic Compounds by GC/MS		05/23/2014 12:02	05/23/2014 22 58	B4F0045
				EPA 552.1 Dalapon		06/03/2014 08:00	06/04/2014 12 08	B4F0105
				EPA 504.1 DBCP/EDB		05/30/2014 08:00	05/30/2014 23 07	B4F0201
				EPA 531.1 Carbamates		06/04/2014 09:00	06/04/2014 10:49	B4F0257
				Mercury, Total CCVA		06/05/2014 09:00	06/05/2014 12 58	B4F0281
				Phenols, Total		06/12/2014 06:55	06/12/2014 09:49	B4F0528
				Groundwater Parameters		05/20/2014 12:50	05/20/2014 12 50	B4F0826
				pH, Tested On Site		05/20/2014 12:50	05/20/2014 12 50	
				Conductance, Field		05/20/2014 12:50	05/20/2014 12 50	
				Temperature in F, Field		05/20/2014 12:50	05/20/2014 12 50	

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Quality Control

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1092 - SW3015										
Blank (B4E1092-BLK2)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/28/2014 13:13*			
Arsenic	< 0.0625	0.0625	mg/L							
Cadmium	< 0.0625	0.0625	mg/L							
Chromium	< 0.0625	0.0625	mg/L							
Lead	< 0.0625	0.0625	mg/L							
Blank (B4E1092-BLK3)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/29/2014 13:26*			
Antimony	< 0.0625	0.0625	mg/L							
Arsenic	< 0.0625	0.0625	mg/L							
Barium	< 0.0625	0.0625	mg/L							
Beryllium	< 0.0625	0.0625	mg/L							
Boron	< 0.0625	0.0625	mg/L							
Cadmium	< 0.0625	0.0625	mg/L							
Chromium	< 0.0625	0.0625	mg/L							
Cobalt	< 0.0313	0.0313	mg/L							
Copper	< 0.0625	0.0625	mg/L							
Iron	< 0.125	0.125	mg/L							
Lead	< 0.0625	0.0625	mg/L							
Manganese	< 0.0625	0.0625	mg/L							
Nickel	< 0.0625	0.0625	mg/L							
Selenium	< 0.0625	0.0625	mg/L							
Silver	< 0.0625	0.0625	mg/L							
Thallium	< 0.0625	0.0625	mg/L							
LCS (B4E1092-BS2)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/28/2014 13:16*			
Arsenic	1.27	0.0625	mg/L	1.25		102	87-113			
Cadmium	0.128	0.0625	mg/L	0.125		103	88-113			
Chromium	1.32	0.0625	mg/L	1.25		106	90-113			
Lead	1.29	0.0625	mg/L	1.25		103	86-113			
LCS (B4E1092-BS3)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/29/2014 13:26*			
Antimony	5.79	0.312	mg/L	1.25		463	88-113			
Arsenic	1.21	0.0625	mg/L	1.25		96.7	87-113			
Barium	1.26	0.0625	mg/L	1.25		101	88-113			
Beryllium	0.126	0.0625	mg/L	0.125		100	89-112			
Boron	0.606	0.0625	mg/L	0.625		97.0	85-113			
Cadmium	0.123	0.0625	mg/L	0.125		98.7	88-113			
Chromium	1.25	0.0625	mg/L	1.25		100	90-113			
Cobalt	1.28	0.0313	mg/L	1.25		102	89-114			
Copper	1.27	0.0625	mg/L	1.25		101	86-114			
Iron	1.25	0.125	mg/L	1.25		99.6	87-115			
Lead	1.27	0.0625	mg/L	1.25		102	86-113			
Manganese	1.25	0.0625	mg/L	1.25		100	90-114			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1092 - SW3015 *(Continued)*										
LCS (B4E1092-BS3) (Continued)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/29/2014 13:26*			
Nickel	1.27	0.0625	mg/L	1.25		101	88-113			
Selenium	5.98	0.312	mg/L	1.25		478	83-114			
Silver	0.123	0.0625	mg/L	0.125		98.7	84-115			
Thallium	6.28	0.312	mg/L	1.25		502	85-114			
MRL Check (B4E1092-MRL1)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/28/2014 13:34*			
Arsenic	0.0606	0.0625	mg/L	0.0625		97.0	0-200			
Cadmium	0.00675	0.0625	mg/L	0.00625		108	0-200			
Chromium	0.0668	0.0625	mg/L	0.0625		107	0-200			
Lead	0.0739	0.0625	mg/L	0.0625		118	0-200			
MRL Check (B4E1092-MRL3)				*Prepared: 05/23/2014 12:00*			*Analyzed: 05/29/2014 13:26*			
Antimony	0.0641	0.0625	mg/L	0.0625		103	0-200			
Arsenic	0.0614	0.0625	mg/L	0.0625		98.2	0-200			
Barium	0.0656	0.0625	mg/L	0.0625		105	0-200			
Beryllium	0.00600	0.0625	mg/L	0.00625		96.0	0-200			
Boron	0.0299	0.0625	mg/L	0.0312		95.6	0-200			
Cadmium	0.00600	0.0625	mg/L	0.00625		96.0	0-200			
Chromium	0.0652	0.0625	mg/L	0.0625		104	0-200			
Cobalt	0.0254	0.0313	mg/L	0.0250		102	0-200			
Copper	0.0654	0.0625	mg/L	0.0625		105	0-200			
Iron	0.0748	0.125	mg/L	0.0625		120	0-200			
Lead	0.0619	0.0625	mg/L	0.0625		99.0	0-200			
Manganese	0.0644	0.0625	mg/L	0.0625		103	0-200			
Nickel	0.0659	0.0625	mg/L	0.0625		105	0-200			
Selenium	0.0616	0.0625	mg/L	0.0625		98.6	0-200			
Silver	0.00988	0.0625	mg/L	0.00625		158	0-200			
Thallium	0.0671	0.0625	mg/L	0.0625		107	0-200			
Batch: B4E1182 - SW3015										
Blank (B4E1182-BLK1)				*Prepared: 05/27/2014 14:00*			*Analyzed: 05/27/2014 14:57*			
Antimony	< 0.0625	0.0625	mg/L							
Arsenic	< 0.0625	0.0625	mg/L							
Barium	< 0.0625	0.0625	mg/L							
Beryllium	< 0.0625	0.0625	mg/L							
Boron	< 0.0625	0.0625	mg/L							
Cadmium	< 0.0625	0.0625	mg/L							
Chromium	< 0.0625	0.0625	mg/L							
Cobalt	< 0.0313	0.0313	mg/L							
Copper	< 0.0625	0.0625	mg/L							
Iron	< 0.125	0.125	mg/L							

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1182 - SW3015 *(Continued)*										
Blank (B4E1182-BLK1) (Continued)				*Prepared: 05/27/2014 14:00*			*Analyzed: 05/27/2014 14:57*			
Lead	< 0.0625	0.0625	mg/L							
Manganese	< 0.0625	0.0625	mg/L							
Nickel	< 0.0625	0.0625	mg/L							
Selenium	< 0.0625	0.0625	mg/L							
Silver	< 0.0625	0.0625	mg/L							
Thallium	< 0.0625	0.0625	mg/L							
LCS (B4E1182-BS1)				*Prepared: 05/27/2014 14:00*			*Analyzed: 05/27/2014 15:00*			
Antimony	1.24	0.0625	mg/L	1.25		99.2	88-113			
Arsenic	1.32	0.0625	mg/L	1.25		106	87-113			
Barium	1.34	0.0625	mg/L	1.25		107	88-113			
Beryllium	0.132	0.0625	mg/L	0.125		106	89-112			
Boron	0.643	0.0625	mg/L	0.625		103	85-113			
Cadmium	0.134	0.0625	mg/L	0.125		107	88-113			
Chromium	1.35	0.0625	mg/L	1.25		108	90-113			
Cobalt	1.40	0.0313	mg/L	1.25		112	89-114			
Copper	1.35	0.0625	mg/L	1.25		108	86-114			
Iron	1.32	0.125	mg/L	1.25		106	87-115			
Lead	1.35	0.0625	mg/L	1.25		108	86-113			
Manganese	1.35	0.0625	mg/L	1.25		108	90-114			
Nickel	1.37	0.0625	mg/L	1.25		110	88-113			
Selenium	1.33	0.0625	mg/L	1.25		106	83-114			
Silver	0.129	0.0625	mg/L	0.125		103	84-115			
Thallium	1.36	0.0625	mg/L	1.25		109	85-114			
MRL Check (B4E1182-MRL1)				*Prepared: 05/27/2014 14:00*			*Analyzed: 05/27/2014 15:04*			
Antimony	0.0759	0.0625	mg/L	0.0625		121	0-200			
Arsenic	0.0768	0.0625	mg/L	0.0625		123	0-200			
Barium	0.0676	0.0625	mg/L	0.0625		108	0-200			
Beryllium	0.00638	0.0625	mg/L	0.00625		102	0-200			
Boron	0.0336	0.0625	mg/L	0.0312		108	0-200			
Cadmium	0.00675	0.0625	mg/L	0.00625		108	0-200			
Chromium	0.0694	0.0625	mg/L	0.0625		111	0-200			
Cobalt	0.0279	0.0313	mg/L	0.0250		112	0-200			
Copper	0.0719	0.0625	mg/L	0.0625		115	0-200			
Iron	0.0679	0.125	mg/L	0.0625		109	0-200			
Lead	0.0671	0.0625	mg/L	0.0625		107	0-200			
Manganese	0.0675	0.0625	mg/L	0.0625		108	0-200			
Nickel	0.0680	0.0625	mg/L	0.0625		109	0-200			
Selenium	0.0609	0.0625	mg/L	0.0625		97.4	0-200			
Silver	0.00450	0.0625	mg/L	0.00625		72.0	0-200			
Thallium	0.0716	0.0625	mg/L	0.0625		115	0-200			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1182 - SW3015 *(Continued)*										
MRL Check (B4E1182-MRL1) (Continued)					*Prepared: 05/27/2014 14:00*		*Analyzed: 05/27/2014 15:04*			
Batch: B4E1213 - SW3015										
Blank (B4E1213-BLK1)					*Prepared: 05/28/2014 09:30*		*Analyzed: 05/28/2014 12:05*			
Antimony	< 0.0625	0.0625	mg/L							
Arsenic	< 0.0625	0.0625	mg/L							
Barium	< 0.0625	0.0625	mg/L							
Beryllium	< 0.0625	0.0625	mg/L							
Boron	< 0.0625	0.0625	mg/L							
Cadmium	< 0.0625	0.0625	mg/L							
Chromium	< 0.0625	0.0625	mg/L							
Cobalt	< 0.0313	0.0313	mg/L							
Copper	< 0.0625	0.0625	mg/L							
Iron	< 0.125	0.125	mg/L							
Lead	< 0.0625	0.0625	mg/L							
Manganese	< 0.0625	0.0625	mg/L							
Nickel	< 0.0625	0.0625	mg/L							
Selenium	< 0.0625	0.0625	mg/L							
Silver	< 0.0625	0.0625	mg/L							
Thallium	< 0.0625	0.0625	mg/L							
LCS (B4E1213-BS1)					*Prepared: 05/28/2014 09:30*		*Analyzed: 05/28/2014 12:09*			
Antimony	1.22	0.0625	mg/L	1.25		97.6	88-113			
Arsenic	1.26	0.0625	mg/L	1.25		100	87-113			
Barium	1.34	0.0625	mg/L	1.25		107	88-113			
Beryllium	0.129	0.0625	mg/L	0.125		104	89-112			
Boron	0.643	0.0625	mg/L	0.625		103	85-113			
Cadmium	0.130	0.0625	mg/L	0.125		104	88-113			
Chromium	1.33	0.0625	mg/L	1.25		106	90-113			
Cobalt	1.36	0.0313	mg/L	1.25		109	89-114			
Copper	1.36	0.0625	mg/L	1.25		108	86-114			
Iron	1.31	0.125	mg/L	1.25		105	87-115			
Lead	1.31	0.0625	mg/L	1.25		104	86-113			
Manganese	1.33	0.0625	mg/L	1.25		106	90-114			
Nickel	1.34	0.0625	mg/L	1.25		107	88-113			
Selenium	1.25	0.0625	mg/L	1.25		100	83-114			
Silver	0.127	0.0625	mg/L	0.125		102	84-115			
Thallium	1.32	0.0625	mg/L	1.25		106	85-114			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1213 - SW3015 *(Continued)*										
MRL Check (B4E1213-MRL1)				*Prepared: 05/28/2014 09:30*			*Analyzed: 05/28/2014 12:12*			
Antimony	0.0718	0.0625	mg/L	0.0625		115	0-200			
Arsenic	0.0594	0.0625	mg/L	0.0625		95.0	0-200			
Barium	0.0680	0.0625	mg/L	0.0625		109	0-200			
Beryllium	0.00638	0.0625	mg/L	0.00625		102	0-200			
Boron	0.0331	0.0625	mg/L	0.0312		106	0-200			
Cadmium	0.00675	0.0625	mg/L	0.00625		108	0-200			
Chromium	0.0671	0.0625	mg/L	0.0625		107	0-200			
Cobalt	0.0279	0.0313	mg/L	0.0250		112	0-200			
Copper	0.0721	0.0625	mg/L	0.0625		115	0-200			
Iron	0.0700	0.125	mg/L	0.0625		112	0-200			
Lead	0.0764	0.0625	mg/L	0.0625		122	0-200			
Manganese	0.0680	0.0625	mg/L	0.0625		109	0-200			
Nickel	0.0699	0.0625	mg/L	0.0625		112	0-200			
Selenium	0.0539	0.0625	mg/L	0.0625		86.2	0-200			
Silver	0.00300	0.0625	mg/L	0.00625		48.0	0-200			
Thallium	0.0721	0.0625	mg/L	0.0625		115	0-200			
Matrix Spike (B4E1213-MS1)				**Source: 14E0462-05**	*Prepared: 05/28/2014 09:30*		*Analyzed: 05/28/2014 12:48*			
Antimony	1.26	0.0625	mg/L	1.25	ND	100	75-125			
Arsenic	1.26	0.0625	mg/L	1.25	ND	101	75-125			
Barium	1.66	0.0625	mg/L	1.25	0.352	105	75-125			
Beryllium	0.134	0.0625	mg/L	0.125	0.00275	105	75-125			
Boron	0.729	0.0625	mg/L	0.625	0.0899	102	75-125			
Cadmium	0.126	0.0625	mg/L	0.125	ND	101	75-125			
Chromium	1.30	0.0625	mg/L	1.25	ND	104	75-125			
Cobalt	1.29	0.0313	mg/L	1.25	ND	103	75-125			
Copper	1.29	0.0625	mg/L	1.25	0.00375	103	75-125			
Iron	11.2	0.125	mg/L	1.25	10.1	86.7	75-125			
Lead	1.25	0.0625	mg/L	1.25	0.00900	99.1	75-125			
Manganese	1.52	0.0625	mg/L	1.25	0.246	102	75-125			
Nickel	1.28	0.0625	mg/L	1.25	ND	102	75-125			
Selenium	1.25	0.0625	mg/L	1.25	ND	100	75-125			
Silver	0.128	0.0625	mg/L	0.125	ND	103	75-125			
Thallium	1.27	0.0625	mg/L	1.25	ND	102	75-125			
Matrix Spike Dup (B4E1213-MSD1)				**Source: 14E0462-05**	*Prepared: 05/28/2014 09:30*		*Analyzed: 05/28/2014 12:51*			
Antimony	1.25	0.0625	mg/L	1.25	ND	100	75-125	0.199	20	
Arsenic	1.26	0.0625	mg/L	1.25	ND	101	75-125	0.396	20	
Barium	1.69	0.0625	mg/L	1.25	0.352	107	75-125	1.64	20	
Beryllium	0.137	0.0625	mg/L	0.125	0.00275	108	75-125	2.02	20	
Boron	0.749	0.0625	mg/L	0.625	0.0899	105	75-125	2.67	20	
Cadmium	0.128	0.0625	mg/L	0.125	ND	102	75-125	1.08	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Metals by ICP-AES

(Continued)

Batch: B4E1213 - SW3015 *(Continued)*

Matrix Spike Dup (B4E1213-MSD1) (Continued) **Source: 14E0462-05** *Prepared: 05/28/2014 09:30 Analyzed: 05/28/2014 12:51*

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Chromium	1.33	0.0625	mg/L	1.25	ND	106	75-125	1.99	20	
Cobalt	1.30	0.0313	mg/L	1.25	ND	104	75-125	0.675	20	
Copper	1.32	0.0625	mg/L	1.25	0.00375	106	75-125	2.20	20	
Iron	10.8	0.125	mg/L	1.25	10.1	54.4	75-125	3.66	20	S
Lead	1.25	0.0625	mg/L	1.25	0.00900	99.6	75-125	0.460	20	
Manganese	1.55	0.0625	mg/L	1.25	0.246	104	75-125	1.55	20	
Nickel	1.29	0.0625	mg/L	1.25	ND	103	75-125	0.878	20	
Selenium	1.27	0.0625	mg/L	1.25	ND	101	75-125	0.992	20	
Silver	0.134	0.0625	mg/L	0.125	ND	107	75-125	3.82	20	
Thallium	1.28	0.0625	mg/L	1.25	ND	102	75-125	0.784	20	

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Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0281										
Blank (B4F0281-BLK1)				*Prepared: 06/05/2014 09:00*			*Analyzed: 06/05/2014 12:58*			
Mercury	< 0.000250	0.000250	mg/L							
LCS (B4F0281-BS1)				*Prepared: 06/05/2014 09:00*			*Analyzed: 06/05/2014 12:58*			
Mercury	0.00493	0.000250	mg/L	0.00500		98.6	82-119			
MRL Check (B4F0281-MRL1)				*Prepared: 06/05/2014 09:00*			*Analyzed: 06/05/2014 12:58*			
Mercury	0.000202	0.000250	mg/L	0.000250		80.6	70-130			
Matrix Spike (B4F0281-MS1)		**Source: 14E0473-03**		*Prepared: 06/05/2014 09:00*			*Analyzed: 06/05/2014 12:58*			
Mercury	0.00375	0.000500	mg/L	0.00400	ND	93.8	75-125			
Matrix Spike Dup (B4F0281-MSD1)		**Source: 14E0473-03**		*Prepared: 06/05/2014 09:00*			*Analyzed: 06/05/2014 12:58*			
Mercury	0.00391	0.000500	mg/L	0.00400	ND	97.7	75-125	4.07	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1247										
Blank (B4E1247-BLK1)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/20/2014 17:25*			
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B4E1247-BS1)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/20/2014 18:08*			
Chloride	0.217		mg/L	0.200		108	87-111			
Fluoride	0.212		mg/L	0.200		106	88-112			
Nitrogen, Nitrate	0.0783		mg/L	0.0904		86.6	88-111			S
Sulfate	0.418		mg/L	0.400		104	87-112			
LCS (B4E1247-BS2)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/20/2014 18:50*			
Chloride	4.94		mg/L	5.00		98.7	87-111			
Fluoride	4.99		mg/L	5.00		99.8	88-112			
Nitrogen, Nitrate	2.17		mg/L	2.26		95.9	88-111			
Sulfate	9.78		mg/L	10.0		97.8	87-112			
LCS (B4E1247-BS3)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/21/2014 18:33*			
Chloride	0.231		mg/L	0.200		115	87-111			S
Fluoride	0.223		mg/L	0.200		111	88-112			
Nitrogen, Nitrate	0.0695		mg/L	0.0904		76.9	88-111			S
Sulfate	0.466		mg/L	0.400		116	87-112			S
LCS (B4E1247-BS4)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/21/2014 19:16*			
Chloride	5.09		mg/L	5.00		102	87-111			
Fluoride	5.11		mg/L	5.00		102	88-112			
Nitrogen, Nitrate	2.18		mg/L	2.26		96.6	88-111			
Sulfate	10.1		mg/L	10.0		101	87-112			
LCS (B4E1247-BS5)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/22/2014 23:07*			
Chloride	0.225		mg/L	0.200		113	87-111			S
Fluoride	0.212		mg/L	0.200		106	88-112			
Sulfate	0.421		mg/L	0.400		105	87-112			
LCS (B4E1247-BS6)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/22/2014 23:50*			
Chloride	4.98		mg/L	5.00		99.5	87-111			
Fluoride	5.10		mg/L	5.00		102	88-112			
Sulfate	10.7		mg/L	10.0		107	87-112			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1247 *(Continued)*										
LCS (B4E1247-BS7)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/24/2014 03:49*			
Chloride	0.286		mg/L	0.200		143	87-111			S
Fluoride	0.208		mg/L	0.200		104	88-112			
Sulfate	0.417		mg/L	0.400		104	87-112			
LCS (B4E1247-BS8)				*Prepared: 05/20/2014 14:33*			*Analyzed: 05/24/2014 04:32*			
Chloride	4.97		mg/L	5.00		99.4	87-111			
Fluoride	5.03		mg/L	5.00		101	88-112			
Nitrogen, Nitrate	2.09		mg/L	2.26		92.4	88-111			
Sulfate	9.93		mg/L	10.0		99.3	87-112			
Matrix Spike (B4E1247-MS1)		**Source: 14E0462-06**		*Prepared: 05/20/2014 14:33*			*Analyzed: 05/22/2014 05:16*			
Chloride	29.0	2.00	mg/L	25.0	3.29	103	80-120			
Fluoride	26.3	0.500	mg/L	25.0	0.337	104	80-120			
Nitrogen, Nitrate	26.3	0.500	mg/L	25.0	0.706	102	80-120			
Sulfate	87.6	5.00	mg/L	25.0	62.5	101	80-120			
Matrix Spike (B4E1247-MS2)		**Source: 14D0978-04**		*Prepared: 05/20/2014 14:33*			*Analyzed: 05/23/2014 14:57*			
Chloride	45.9	2.00	mg/L	25.0	19.8	104	80-120			
Fluoride	26.6	0.500	mg/L	25.0	0.513	104	80-120			
Sulfate	96.7	5.00	mg/L	25.0	71.2	102	80-120			
Matrix Spike (B4E1247-MS3)		**Source: 14D0978-16**		*Prepared: 05/20/2014 14:33*			*Analyzed: 05/24/2014 02:23*			
Chloride	61.7	2.00	mg/L	25.0	35.6	104	80-120			
Fluoride	26.7	0.500	mg/L	25.0	0.657	104	80-120			
Sulfate	118	5.00	mg/L	25.0	92.7	103	80-120			
Matrix Spike Dup (B4E1247-MSD1)		**Source: 14E0462-06**		*Prepared: 05/20/2014 14:33*			*Analyzed: 05/22/2014 05:59*			
Chloride	29.0	2.00	mg/L	25.0	3.29	103	80-120	0.0449	20	
Fluoride	26.2	0.500	mg/L	25.0	0.337	104	80-120	0.0381	20	
Nitrogen, Nitrate	26.2	0.500	mg/L	25.0	0.706	102	80-120	0.328	20	
Sulfate	87.7	5.00	mg/L	25.0	62.5	101	80-120	0.0673	20	
Matrix Spike Dup (B4E1247-MSD2)		**Source: 14D0978-04**		*Prepared: 05/20/2014 14:33*			*Analyzed: 05/23/2014 15:40*			
Chloride	45.6	2.00	mg/L	25.0	19.8	103	80-120	0.774	20	
Fluoride	26.6	0.500	mg/L	25.0	0.513	104	80-120	0.0714	20	
Sulfate	96.5	5.00	mg/L	25.0	71.2	101	80-120	0.170	20	
Matrix Spike Dup (B4E1247-MSD3)		**Source: 14D0978-16**		*Prepared: 05/20/2014 14:33*			*Analyzed: 05/24/2014 03:06*			
Chloride	61.7	2.00	mg/L	25.0	35.6	104	80-120	0.0146	20	
Fluoride	26.7	0.500	mg/L	25.0	0.657	104	80-120	0.0112	20	
Sulfate	118	5.00	mg/L	25.0	92.7	103	80-120	0.0262	20	
Batch: B4F0217										

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0217 *(Continued)*										
Blank (B4F0217-BLK1)				*Prepared: 05/27/2014 15:11*			*Analyzed: 05/27/2014 15:59*			
Sulfate	< 0.500	0.500	mg/L							
LCS (B4F0217-BS1)				*Prepared: 05/27/2014 15:11*			*Analyzed: 05/27/2014 16:42*			
Sulfate	0.572		mg/L	0.400		143	87-112			S
LCS (B4F0217-BS2)				*Prepared: 05/27/2014 17:11*			*Analyzed: 05/27/2014 17:25*			
Sulfate	10.1		mg/L	10.0		101	87-112			
LCS (B4F0217-BS3)				*Prepared: 05/27/2014 17:11*			*Analyzed: 05/28/2014 17:31*			
Sulfate	0.452		mg/L	0.400		113	87-112			S
LCS (B4F0217-BS5)				*Prepared: 05/27/2014 17:11*			*Analyzed: 05/29/2014 23:04*			
Sulfate	0.456		mg/L	0.400		114	87-112			S
LCS (B4F0217-BS6)				*Prepared: 05/27/2014 17:11*			*Analyzed: 05/29/2014 23:47*			
Sulfate	9.91		mg/L	10.0		99.1	87-112			
LCS (B4F0217-BS7)				*Prepared: 05/27/2014 17:11*			*Analyzed: 05/30/2014 21:57*			
Sulfate	0.434		mg/L	0.400		108	87-112			
LCS (B4F0217-BS8)				*Prepared: 05/27/2014 17:11*			*Analyzed: 05/30/2014 22:40*			
Sulfate	10.1		mg/L	10.0		101	87-112			
LCS (B4F0217-BS9)				*Prepared: 05/27/2014 17:11*			*Analyzed: 06/02/2014 03:32*			
Sulfate	9.92		mg/L	10.0		99.2	87-112			
LCS (B4F0217-BSA)				*Prepared: 05/27/2014 17:11*			*Analyzed: 06/03/2014 09:31*			
Sulfate	0.457		mg/L	0.400		114	87-112			S
LCS (B4F0217-BSB)				*Prepared: 05/27/2014 17:11*			*Analyzed: 06/03/2014 10:14*			
Sulfate	9.94		mg/L	10.0		99.4	87-112			
Matrix Spike (B4F0217-MS1)		**Source: 14E0471-04**		*Prepared: 05/27/2014 17:11*			*Analyzed: 05/28/2014 05:33*			
Sulfate	65.2	5.00	mg/L	25.0	40.5	98.9	80-120			
Matrix Spike (B4F0217-MS4)		**Source: 14E0676-02**		*Prepared: 05/27/2014 17:11*			*Analyzed: 05/31/2014 18:40*			
Sulfate	27.6	5.00	mg/L	25.0	0.348	109	80-120			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
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Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0217 *(Continued)*										
Matrix Spike (B4F0217-MS5)		**Source: 14E0711-10**		*Prepared: 05/27/2014 17:11*			*Analyzed: 05/31/2014 20:06*			
Sulfate	36.8	5.00	mg/L	25.0	5.65	125	80-120			S
Matrix Spike Dup (B4F0217-MSD1)		**Source: 14E0471-04**		*Prepared: 05/27/2014 17:11*			*Analyzed: 05/28/2014 06:16*			
Sulfate	65.2	5.00	mg/L	25.0	40.5	98.9	80-120	0.00307	20	
Matrix Spike Dup (B4F0217-MSD4)		**Source: 14E0676-02**		*Prepared: 05/27/2014 17:11*			*Analyzed: 05/31/2014 19:23*			
Sulfate	27.6	5.00	mg/L	25.0	0.348	109	80-120	0.188	20	
Matrix Spike Dup (B4F0217-MSD5)		**Source: 14E0711-10**		*Prepared: 05/27/2014 17:11*			*Analyzed: 05/31/2014 20:49*			
Sulfate	36.5	5.00	mg/L	25.0	5.65	124	80-120	0.734	20	S

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
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Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E0980 - SW9010B										
Blank (B4E0980-BLK1)				*Prepared: 05/21/2014 12:15 Analyzed: 05/22/2014 07:51*						
Cyanide	< 0.0100	0.0100	mg/L							
LCS (B4E0980-BS1)				*Prepared: 05/21/2014 12:15 Analyzed: 05/22/2014 07:51*						
Cyanide	0.0563	0.0100	mg/L	0.0500		113	83-116			
LCS (B4E0980-BS2)				*Prepared: 05/21/2014 12:15 Analyzed: 05/22/2014 07:51*						
Cyanide	0.0104	0.0100	mg/L	0.0100		104	83-116			
Matrix Spike (B4E0980-MS1)		**Source: 14E0462-01**		*Prepared: 05/21/2014 12:15 Analyzed: 05/22/2014 08:03*						
Cyanide	0.218	0.100	mg/L	0.200	ND	109	80-120			
Matrix Spike Dup (B4E0980-MSD1)		**Source: 14E0462-01**		*Prepared: 05/21/2014 12:15 Analyzed: 05/22/2014 08:17*						
Cyanide	0.219	0.100	mg/L	0.200	ND	109	80-120	0.504	10	
Batch: B4E1029 - SW9010B										
Blank (B4E1029-BLK1)				*Prepared: 05/22/2014 11:45 Analyzed: 05/22/2014 15:31*						
Cyanide	< 0.0100	0.0100	mg/L							
LCS (B4E1029-BS1)				*Prepared: 05/22/2014 11:45 Analyzed: 05/22/2014 15:31*						
Cyanide	0.0477	0.0100	mg/L	0.0500		95.3	83-116			
LCS (B4E1029-BS2)				*Prepared: 05/22/2014 11:45 Analyzed: 05/22/2014 15:44*						
Cyanide	0.00943	0.0100	mg/L	0.0100		94.3	83-116			
Batch: B4E1181										
Blank (B4E1181-BLK1)				*Prepared: 05/23/2014 16:00 Analyzed: 05/23/2014 16:00*						
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B4E1181-BS1)				*Prepared: 05/23/2014 16:00 Analyzed: 05/23/2014 16:00*						
Total Dissolved Solids (Residue, Filterable)	970	10.0	mg/L	942		103	85-115			
Duplicate (B4E1181-DUP1)		**Source: 14E0409-11**		*Prepared: 05/23/2014 16:00 Analyzed: 05/23/2014 16:00*						
Total Dissolved Solids (Residue, Filterable)	584	10.0	mg/L		560			4.20	5	
Duplicate (B4E1181-DUP2)		**Source: 14E0462-05**		*Prepared: 05/23/2014 16:00 Analyzed: 05/23/2014 16:00*						
Total Dissolved Solids (Residue, Filterable)	520	10.0	mg/L		510			1.94	5	

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Quality Control

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Matrix: Water

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1181 *(Continued)*										
Batch: B4E1202 - SW9010B										
Blank (B4E1202-BLK1)				*Prepared: 05/28/2014 08:27*			*Analyzed: 05/28/2014 11:26*			
Cyanide	< 0.0100	0.0100	mg/L							
LCS (B4E1202-BS1)				*Prepared: 05/28/2014 08:27*			*Analyzed: 05/28/2014 11:26*			
Cyanide	0.0522	0.0100	mg/L	0.0500		104	83-116			
LCS (B4E1202-BS2)				*Prepared: 05/28/2014 08:27*			*Analyzed: 05/28/2014 11:26*			
Cyanide	0.0118	0.0100	mg/L	0.0100		118	83-116			S
Matrix Spike (B4E1202-MS1)		**Source: 14E0510-09**		*Prepared: 05/28/2014 08:27*			*Analyzed: 05/28/2014 11:34*			
Cyanide	0.346	0.100	mg/L	0.200	0.0196	163	80-120			S Matrix
Matrix Spike Dup (B4E1202-MSD1)		**Source: 14E0510-09**		*Prepared: 05/28/2014 08:27*			*Analyzed: 05/28/2014 11:39*			
Cyanide	0.378	0.100	mg/L	0.200	0.0196	179	80-120	8.89	10	S Matrix
Batch: B4F0528										
Blank (B4F0528-BLK1)				*Prepared: 06/12/2014 06:55*			*Analyzed: 06/12/2014 09:49*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B4F0528-BS1)				*Prepared: 06/12/2014 06:55*			*Analyzed: 06/12/2014 09:49*			
Phenolics, Total Recoverable	0.0514	0.0100	mg/L	0.0500		103	85-115			
Matrix Spike (B4F0528-MS1)		**Source: 14E0462-06**		*Prepared: 06/12/2014 06:55*			*Analyzed: 06/12/2014 09:49*			
Phenolics, Total Recoverable	0.0513	0.0100	mg/L	0.0500	0.00781	87.0	80-120			
Matrix Spike Dup (B4F0528-MSD1)		**Source: 14E0462-06**		*Prepared: 06/12/2014 06:55*			*Analyzed: 06/12/2014 09:49*			
Phenolics, Total Recoverable	0.0586	0.0100	mg/L	0.0500	0.00781	102	80-120	13.3	10	P

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Quality Control

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Client: City, Water, Light & Power
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2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1157 - SW3510										
Blank (B4E1157-BLK1)				*Prepared: 05/23/2014 09:00*			*Analyzed: 06/17/2014 21:06*			
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.103*		*ug/L*	*0.100*		*103*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0886*		*ug/L*	*0.100*		*89*	*44-124*			
Blank (B4E1157-BLK2)				*Prepared: 05/23/2014 09:00*			*Analyzed: 06/16/2014 18:23*			
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.00*		*ug/L*	*0.100*			*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.00*		*ug/L*	*0.100*			*44-124*			
LCS (B4E1157-BS1)				*Prepared: 05/23/2014 09:00*			*Analyzed: 06/17/2014 21:53*			
Alachlor	< 0.500	0.500	ug/L				19-132			
Atrazine	< 0.500	0.500	ug/L				57-119			
Endrin	0.110	0.300	ug/L	0.100		110	60-138			
Lindane (gamma-BHC)	0.0883	0.300	ug/L	0.100		88	59-134			
Heptachlor	0.100	0.300	ug/L	0.100		100	54-130			
Heptachlor epoxide	0.101	0.300	ug/L	0.100		101	61-133			
Methoxychlor	0.127	0.300	ug/L	0.100		127	54-145			
Simazine	< 0.500	0.500	ug/L				35-124			
Surrogate: Decachlorobiphenyl	*0.0864*		*ug/L*	*0.100*		*86*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0756*		*ug/L*	*0.100*		*76*	*44-124*			

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Quality Control

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Project: List G20
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Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1157 - SW3510 *(Continued)*										
LCS (B4E1157-BS2)				*Prepared: 05/23/2014 09:00*			*Analyzed: 06/16/2014 19:09*			
Alachlor	0.742	0.500	ug/L	0.500		148	19-132			S
Atrazine	0.612	0.500	ug/L	0.500		122	57-119			S
Endrin	< 0.300	0.300	ug/L				60-138			
Lindane (gamma-BHC)	< 0.300	0.300	ug/L				59-134			
Heptachlor	< 0.300	0.300	ug/L				54-130			
Heptachlor epoxide	< 0.300	0.300	ug/L				61-133			
Methoxychlor	< 0.300	0.300	ug/L				54-145			
Simazine	0.569	0.500	ug/L	0.500		114	35-124			
Surrogate: Decachlorobiphenyl	*0.00*		*ug/L*	*0.100*			*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.00*		*ug/L*	*0.100*			*44-124*			
LCS Dup (B4E1157-BSD1)				*Prepared: 05/23/2014 09:00*			*Analyzed: 06/17/2014 22:40*			
Alachlor	< 0.500	0.500	ug/L				19-132		20	
Atrazine	< 0.500	0.500	ug/L				57-119		20	
Endrin	0.0877	0.300	ug/L	0.100		88	60-138	23	20	P
Lindane (gamma-BHC)	0.0762	0.300	ug/L	0.100		76	59-134	15	20	
Heptachlor	0.0864	0.300	ug/L	0.100		86	54-130	15	20	
Heptachlor epoxide	0.0837	0.300	ug/L	0.100		84	61-133	19	20	
Methoxychlor	0.0955	0.300	ug/L	0.100		96	54-145	28	20	P
Simazine	< 0.500	0.500	ug/L				35-124		20	
Surrogate: Decachlorobiphenyl	*0.0670*		*ug/L*	*0.100*		*67*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0675*		*ug/L*	*0.100*		*68*	*44-124*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1161 - SW3510										
Blank (B4E1161-BLK1)				*Prepared: 05/23/2014 09:00*			*Analyzed: 05/29/2014 12:57*			
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1221	< 1.00	1.00	ug/L							
Aroclor 1232	< 0.500	0.500	ug/L							
Aroclor 1242	< 0.500	0.500	ug/L							
Aroclor 1248	< 0.500	0.500	ug/L							
Aroclor 1254	< 0.500	0.500	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Surrogate: Decachlorobiphenyl	*0.0767*		*ug/L*	*0.100*		*77*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0676*		*ug/L*	*0.100*		*68*	*13-133*			
LCS (B4E1161-BS1)				*Prepared: 05/23/2014 09:00*			*Analyzed: 05/29/2014 13:24*			
Aroclor 1016	0.674	0.500	ug/L	0.800		84	46-129			
Aroclor 1221	< 1.00	1.00	ug/L				40-130			
Aroclor 1232	< 0.500	0.500	ug/L				40-130			
Aroclor 1242	< 0.500	0.500	ug/L				40-130			
Aroclor 1248	< 0.500	0.500	ug/L				62-104			
Aroclor 1254	< 0.500	0.500	ug/L				34-127			
Aroclor 1260	0.672	0.500	ug/L	0.800		84	45-134			
Surrogate: Decachlorobiphenyl	*0.0816*		*ug/L*	*0.100*		*82*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0714*		*ug/L*	*0.100*		*71*	*13-133*			
LCS Dup (B4E1161-BSD1)				*Prepared: 05/23/2014 09:00*			*Analyzed: 05/29/2014 13:51*			
Aroclor 1016	0.686	0.500	ug/L	0.800		86	46-129	2	20	
Aroclor 1221	< 1.00	1.00	ug/L				40-130		20	
Aroclor 1232	< 0.500	0.500	ug/L				40-130		20	
Aroclor 1242	< 0.500	0.500	ug/L				40-130		20	
Aroclor 1248	< 0.500	0.500	ug/L				62-104		20	
Aroclor 1254	< 0.500	0.500	ug/L				34-127		20	
Aroclor 1260	0.669	0.500	ug/L	0.800		84	45-134	0.6	20	
Surrogate: Decachlorobiphenyl	*0.0685*		*ug/L*	*0.100*		*69*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0621*		*ug/L*	*0.100*		*62*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0257										
Blank (B4F0257-BLK1)				*Prepared: 06/04/2014 09:00*			*Analyzed: 06/04/2014 10:49*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B4F0257-BS1)				*Prepared: 06/04/2014 09:00*			*Analyzed: 06/04/2014 10:49*			
Aldicarb	51.0	2.00	ug/L	50.0		102	85-115			
Carbofuran	50.0	2.00	ug/L	50.0		100	85-115			
LCS Dup (B4F0257-BSD1)				*Prepared: 06/04/2014 09:00*			*Analyzed: 06/04/2014 10:49*			
Aldicarb	49.0	2.00	ug/L	50.0		98	85-115	4	20	
Carbofuran	48.0	2.00	ug/L	50.0		96	85-115	4	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1008 - SW3510										
Blank (B4E1008-BLK1)				*Prepared: 05/21/2014 18:00*			*Analyzed: 05/23/2014 12:32*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*56.4*		*ug/L*	*50.0*		*113*	*20-138*			
LCS (B4E1008-BS1)				*Prepared: 05/21/2014 18:00*			*Analyzed: 05/23/2014 20:57*			
2,4,5-TP (Silvex)	10.4	1.50	ug/L	10.0		104	50-115			
2,4-D	9.83	1.50	ug/L	10.0		98	35-115			
Dinoseb	< 1.50	1.50	ug/L				20-100			
Picloram	7.66	1.50	ug/L	10.0		77	50-150			
Surrogate: 3,5-Dichlorobenzoic Acid	*52.2*		*ug/L*	*50.0*		*104*	*20-138*			
LCS Dup (B4E1008-BSD1)				*Prepared: 05/21/2014 18:00*			*Analyzed: 05/23/2014 21:39*			
2,4,5-TP (Silvex)	11.5	1.50	ug/L	10.0		115	50-115	10	20	
2,4-D	10.3	1.50	ug/L	10.0		103	35-115	5	20	
Dinoseb	< 1.50	1.50	ug/L				20-100		20	
Picloram	8.51	1.50	ug/L	10.0		85	50-150	10	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*54.6*		*ug/L*	*50.0*		*109*	*20-138*			
Batch: B4E1148 - SW3510										
Blank (B4E1148-BLK1)				*Prepared: 05/25/2014 08:00*			*Analyzed: 05/27/2014 18:48*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*41.1*		*ug/L*	*50.0*		*82*	*20-138*			
LCS (B4E1148-BS1)				*Prepared: 05/25/2014 08:00*			*Analyzed: 05/27/2014 20:12*			
2,4,5-TP (Silvex)	8.98	1.50	ug/L	10.0		90	50-115			
2,4-D	8.83	1.50	ug/L	10.0		88	35-115			
Dinoseb	< 1.50	1.50	ug/L				20-100			
Picloram	9.36	1.50	ug/L	10.0		94	50-150			
Surrogate: 3,5-Dichlorobenzoic Acid	*42.1*		*ug/L*	*50.0*		*84*	*20-138*			
LCS Dup (B4E1148-BSD1)				*Prepared: 05/25/2014 08:00*			*Analyzed: 05/27/2014 20:54*			
2,4,5-TP (Silvex)	9.32	1.50	ug/L	10.0		93	50-115	4	20	
2,4-D	9.19	1.50	ug/L	10.0		92	35-115	4	20	
Dinoseb	< 1.50	1.50	ug/L				20-100		20	
Picloram	9.69	1.50	ug/L	10.0		97	50-150	3	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*43.6*		*ug/L*	*50.0*		*87*	*20-138*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual

Batch: B4E1148 - SW3510 *(Continued)*

LCS Dup (B4E1148-BSD1) (Continued) *Prepared: 05/25/2014 08:00 Analyzed: 05/27/2014 20:54*

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0045 - SW5030										
Blank (B4F0045-BLK1)				*Prepared: 05/23/2014 12:02 Analyzed: 05/23/2014 15:27*						
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*22.0*		*ug/L*	*20.0*		*110*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.9*		*ug/L*	*20.0*		*99*	*81-118*			
Surrogate: Fluorobenzene	*19.2*		*ug/L*	*20.0*		*96*	*80-116*			
Surrogate: Toluene-d8	*19.7*		*ug/L*	*20.0*		*99*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.79*		*ug/L*	*10.0*		*98*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.9*		*ug/L*	*20.0*		*100*	*70-120*			
LCS (B4F0045-BS1)				*Prepared: 05/23/2014 12:02 Analyzed: 05/23/2014 15:59*						
1,1,1-Trichloroethane	78.2		ug/L	80.0		98	74-131			
1,1,2-Trichloroethane	86.3		ug/L	80.0		108	80-119			
1,1-Dichloroethene	73.9		ug/L	80.0		92	71-131			
1,2-Dichloroethane	78.2		ug/L	80.0		98	73-128			
1,2-Dichloropropane	82.8		ug/L	80.0		103	78-122			
Benzene	83.4		ug/L	80.0		104	79-120			
Carbon tetrachloride	86.1		ug/L	80.0		108	72-136			
Chlorobenzene	78.1		ug/L	80.0		98	82-118			
cis-1,2-Dichloroethene	74.8		ug/L	80.0		94	78-123			
Ethylbenzene	84.5		ug/L	80.0		106	79-121			
Methyl tert-butyl ether	78.0		ug/L	80.0		98	71-124			
Dichloromethane (Methylene chloride)	78.7		ug/L	80.0		98	74-124			
Styrene	89.5		ug/L	80.0		112	78-123			
Tetrachloroethene	72.6		ug/L	80.0		91	74-129			
Toluene	80.2		ug/L	80.0		100	80-121			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0045 - SW5030 *(Continued)*										
LCS (B4F0045-BS1) (Continued)				*Prepared: 05/23/2014 12:02*			*Analyzed: 05/23/2014 15:59*			
trans-1,2-Dichloroethene	75.2		ug/L	80.0		94	75-124			
Trichloroethene	83.8		ug/L	80.0		105	79-123			
Vinyl chloride	67.6		ug/L	80.0		84	58-137			
Xylenes, Total	240		ug/L	240		100	79-121			
Surrogate: Dibromofluoromethane	*18.7*		*ug/L*	*20.0*		*94*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*18.6*		*ug/L*	*20.0*		*93*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*19.7*		*ug/L*	*20.0*		*98*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.52*		*ug/L*	*10.0*		*95*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.9*		*ug/L*	*20.0*		*99*	*70-120*			
LCS Dup (B4F0045-BSD1)				*Prepared: 05/23/2014 12:02*			*Analyzed: 05/23/2014 16:31*			
1,1,1-Trichloroethane	78.3		ug/L	80.0		98	74-131	0.05	20	
1,1,2-Trichloroethane	80.8		ug/L	80.0		101	80-119	7	20	
1,1-Dichloroethene	73.5		ug/L	80.0		92	71-131	0.6	20	
1,2-Dichloroethane	76.7		ug/L	80.0		96	73-128	2	20	
1,2-Dichloropropane	81.0		ug/L	80.0		101	78-122	2	20	
Benzene	82.1		ug/L	80.0		103	79-120	2	20	
Carbon tetrachloride	85.0		ug/L	80.0		106	72-136	1	20	
Chlorobenzene	80.5		ug/L	80.0		101	82-118	3	20	
cis-1,2-Dichloroethene	68.3		ug/L	80.0		85	78-123	9	20	
Ethylbenzene	86.1		ug/L	80.0		108	79-121	2	20	
Methyl tert-butyl ether	68.6		ug/L	80.0		86	71-124	13	20	
Dichloromethane (Methylene chloride)	65.8		ug/L	80.0		82	74-124	18	20	
Styrene	91.3		ug/L	80.0		114	78-123	2	20	
Tetrachloroethene	82.5		ug/L	80.0		103	74-129	13	20	
Toluene	82.7		ug/L	80.0		103	80-121	3	20	
trans-1,2-Dichloroethene	67.3		ug/L	80.0		84	75-124	11	20	
Trichloroethene	82.9		ug/L	80.0		104	79-123	1	20	
Vinyl chloride	70.6		ug/L	80.0		88	58-137	4	20	
Xylenes, Total	246		ug/L	240		103	79-121	2	20	
Surrogate: Dibromofluoromethane	*18.8*		*ug/L*	*20.0*		*94*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*18.8*		*ug/L*	*20.0*		*94*	*81-118*			
Surrogate: Fluorobenzene	*19.8*		*ug/L*	*20.0*		*99*	*80-116*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.70*		*ug/L*	*10.0*		*97*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.1*		*ug/L*	*20.0*		*95*	*70-120*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0201										
Blank (B4F0201-BLK1)				*Prepared: 05/30/2014 08:00*			*Analyzed: 05/30/2014 13:10*			
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B4F0201-BS1)				*Prepared: 05/30/2014 08:00*			*Analyzed: 05/30/2014 12:07*			
Ethylene Dibromide (1,2-Dibromoethane)	0.253	0.100	ug/L	0.250		101	70-130			
LCS (B4F0201-BS2)				*Prepared: 05/30/2013 08:00*			*Analyzed: 05/30/2014 10:36*			
Ethylene Dibromide (1,2-Dibromoethane)	0.250	0.100	ug/L	0.250		100	70-130			
LCS (B4F0201-BS3)				*Prepared: 05/30/2013 08:00*			*Analyzed: 05/30/2014 17:24*			
Ethylene Dibromide (1,2-Dibromoethane)	0.243	0.100	ug/L	0.250		97	70-130			
LCS (B4F0201-BS4)				*Prepared: 05/30/2013 08:00*			*Analyzed: 05/30/2014 23:38*			
Ethylene Dibromide (1,2-Dibromoethane)	0.249	0.100	ug/L	0.250		100	70-130			
LCS Dup (B4F0201-BSD1)				*Prepared: 05/30/2014 08:00*			*Analyzed: 05/30/2014 12:39*			
Ethylene Dibromide (1,2-Dibromoethane)	0.256	0.100	ug/L	0.250		102	70-130	1	20	
Duplicate (B4F0201-DUP1)		**Source: 14E0462-01**		*Prepared: 05/30/2014 08:00*			*Analyzed: 05/30/2014 20:31*			
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0959	0.0959	ug/L		ND				200	
Matrix Spike (B4F0201-MS1)		**Source: 14E0473-03**		*Prepared: 05/30/2014 08:00*			*Analyzed: 05/30/2014 16:21*			
Ethylene Dibromide (1,2-Dibromoethane)	0.244	0.100	ug/L	0.250	ND	98	65-135			
Matrix Spike (B4F0201-MS2)		**Source: 14E0462-06**		*Prepared: 05/30/2013 08:00*			*Analyzed: 05/30/2014 16:53*			
Ethylene Dibromide (1,2-Dibromoethane)	0.246	0.100	ug/L	0.250	ND	98	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4F0105										
Blank (B4F0105-BLK1)				*Prepared: 06/03/2014 08:00*		*Analyzed: 06/03/2014 11:12*				
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*10.9*		*ug/L*	*10.0*		*109*	*70-130*			
LCS (B4F0105-BS1)				*Prepared: 06/03/2014 08:00*		*Analyzed: 06/03/2014 14:09*				
Dalapon	8.32	0.500	ug/L	10.0		83	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*9.64*		*ug/L*	*10.0*		*96*	*70-130*			
Matrix Spike (B4F0105-MS1)		**Source: 14E0409-08**		*Prepared: 06/03/2014 08:00*		*Analyzed: 06/03/2014 14:53*				
Dalapon	12.0	0.500	ug/L	10.0	ND	120	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*7.61*		*ug/L*	*10.0*		*76*	*70-130*			
Matrix Spike Dup (B4F0105-MSD1)		**Source: 14E0409-08**		*Prepared: 06/03/2014 08:00*		*Analyzed: 06/03/2014 15:37*				
Dalapon	12.9	0.500	ug/L	10.0	ND	129	70-130	7	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*7.07*		*ug/L*	*10.0*		*71*	*70-130*			
Batch: B4F0656										
Blank (B4F0656-BLK1)				*Prepared: 06/14/2014 10:00*		*Analyzed: 06/15/2014 13:21*				
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*10.0*		*ug/L*	*10.0*		*100*	*70-130*			
LCS (B4F0656-BS1)				*Prepared: 06/14/2014 10:00*		*Analyzed: 06/15/2014 12:38*				
Dalapon	12.4	0.500	ug/L	10.0		124	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*11.5*		*ug/L*	*10.0*		*115*	*70-130*			
Duplicate (B4F0656-DUP1)		**Source: 14E0462-03RE1**		*Prepared: 06/14/2014 10:00*		*Analyzed: 06/15/2014 14:47*				
Dalapon	< 0.500	0.500	ug/L		ND				200	
Surrogate: 2,4-Dichlorophenylacetic acid	*11.8*		*ug/L*	*10.0*		*118*	*70-130*			
Matrix Spike (B4F0656-MS1)		**Source: 14E0409-10RE1**		*Prepared: 06/14/2014 10:00*		*Analyzed: 06/15/2014 16:14*				
Dalapon	7.33	0.500	ug/L	10.0	ND	73	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*8.52*		*ug/L*	*10.0*		*85*	*70-130*			
Matrix Spike Dup (B4F0656-MSD1)		**Source: 14E0409-10RE1**		*Prepared: 06/14/2014 10:00*		*Analyzed: 06/15/2014 16:58*				
Dalapon	7.37	0.500	ug/L	10.0	ND	74	70-130	0.5	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*8.76*		*ug/L*	*10.0*		*88*	*70-130*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1078 - SW3510										
Blank (B4E1078-BLK1)				*Prepared: 05/22/2014 15:00*			*Analyzed: 05/23/2014 13:46*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*29.4*		*ug/L*	*33.4*		*88*	*19-119*			
Surrogate: Phenol-d5	*28.0*		*ug/L*	*33.4*		*84*	*10-115*			
Surrogate: Nitrobenzene-d5	*29.5*		*ug/L*	*33.4*		*88*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*30.8*		*ug/L*	*33.4*		*92*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*23.6*		*ug/L*	*33.4*		*71*	*43-140*			
Surrogate: 4-Terphenyl-d14	*38.5*		*ug/L*	*33.4*		*115*	*50-134*			
Blank (B4E1078-BLK2)				*Prepared: 05/22/2014 15:00*			*Analyzed: 05/23/2014 13:46*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*29.4*		*ug/L*	*33.4*		*88*	*19-119*			
Surrogate: Phenol-d5	*28.0*		*ug/L*	*33.4*		*84*	*10-115*			
Surrogate: Nitrobenzene-d5	*29.5*		*ug/L*	*33.4*		*88*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*30.8*		*ug/L*	*33.4*		*92*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*23.6*		*ug/L*	*33.4*		*71*	*43-140*			
Surrogate: 4-Terphenyl-d14	*38.5*		*ug/L*	*33.4*		*115*	*50-134*			
Blank (B4E1078-BLK3)				*Prepared: 05/22/2014 15:00*			*Analyzed: 06/13/2014 11:47*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*0.00*		*ug/L*	*33.4*			*19-119*			
Surrogate: Phenol-d5	*0.00*		*ug/L*	*33.4*			*10-115*			
Surrogate: Nitrobenzene-d5	*0.00*		*ug/L*	*33.4*			*44-120*			
Surrogate: 2-Fluorobiphenyl	*0.00*		*ug/L*	*33.4*			*44-119*			
Surrogate: 2,4,6-Tribromophenol	*0.00*		*ug/L*	*33.4*			*43-140*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1078 - SW3510 *(Continued)*										
Blank (B4E1078-BLK3) (Continued)				*Prepared: 05/22/2014 15:00*			*Analyzed: 06/13/2014 11:47*			
Surrogate: 4-Terphenyl-d14	*0.00*		*ug/L*	*33.4*			*50-134*			
LCS (B4E1078-BS1)				*Prepared: 05/22/2014 15:00*			*Analyzed: 05/23/2014 14:29*			
1,2,4-Trichlorobenzene	33.5	5.00	ug/L	50.0		67	29-116			
o-Dichlorobenzene (1,2-Dichlorobenzene)	35.6	5.00	ug/L	50.0		71	32-111			
p-Dichlorobenzene (1,4-Dichlorobenzene)	36.1	5.00	ug/L	50.0		72	29-112			
Benzo(a)pyrene	45.6	10.0	ug/L	50.0		91	54-128			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	45.5	10.0	ug/L	50.0		91	55-135			
Hexachlorocyclopentadiene	38.2	25.0	ug/L	50.0		76	50-150			
Pentachlorophenol	41.4	100	ug/L	50.0		83	35-138			
Surrogate: 2-Fluorophenol	*26.4*		*ug/L*	*33.4*		*79*	*19-119*			
Surrogate: Phenol-d5	*26.5*		*ug/L*	*33.4*		*79*	*10-115*			
Surrogate: Nitrobenzene-d5	*27.9*		*ug/L*	*33.4*		*84*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*29.9*		*ug/L*	*33.4*		*90*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*37.3*		*ug/L*	*33.4*		*112*	*43-140*			
Surrogate: 4-Terphenyl-d14	*39.3*		*ug/L*	*33.4*		*118*	*50-134*			
LCS (B4E1078-BS2)				*Prepared: 05/22/2014 15:00*			*Analyzed: 05/23/2014 15:55*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L				29-116			
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L				32-111			
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L				29-112			
Benzo(a)pyrene	< 10.0	10.0	ug/L				54-128			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L				55-135			
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L				50-150			
Pentachlorophenol	< 100	100	ug/L				35-138			
Surrogate: 2-Fluorophenol	*0.00*		*ug/L*	*33.4*			*19-119*			
Surrogate: Phenol-d5	*0.00*		*ug/L*	*33.4*			*10-115*			
Surrogate: Nitrobenzene-d5	*0.00*		*ug/L*	*33.4*			*44-120*			
Surrogate: 2-Fluorobiphenyl	*0.00*		*ug/L*	*33.4*			*44-119*			
Surrogate: 2,4,6-Tribromophenol	*0.00*		*ug/L*	*33.4*			*43-140*			
Surrogate: 4-Terphenyl-d14	*0.00*		*ug/L*	*33.4*			*50-134*			
LCS Dup (B4E1078-BSD1)				*Prepared: 05/22/2014 15:00*			*Analyzed: 05/23/2014 15:12*			
1,2,4-Trichlorobenzene	39.5	5.00	ug/L	50.0		79	29-116	16	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	38.0	5.00	ug/L	50.0		76	32-111	7	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	38.8	5.00	ug/L	50.0		78	29-112	7	20	
Benzo(a)pyrene	46.6	10.0	ug/L	50.0		93	54-128	2	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	45.8	10.0	ug/L	50.0		92	55-135	0.7	20	
Hexachlorocyclopentadiene	43.3	25.0	ug/L	50.0		87	50-150	13	20	
Pentachlorophenol	38.5	100	ug/L	50.0		77	35-138	7	20	
Surrogate: 2-Fluorophenol	*29.9*		*ug/L*	*33.4*		*90*	*19-119*			
Surrogate: Phenol-d5	*29.2*		*ug/L*	*33.4*		*88*	*10-115*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1078 - SW3510 *(Continued)*										
LCS Dup (B4E1078-BSD1) (Continued)				*Prepared: 05/22/2014 15:00*			*Analyzed: 05/23/2014 15:12*			
Surrogate: Nitrobenzene-d5	*30.6*		*ug/L*	*33.4*		*92*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*30.9*		*ug/L*	*33.4*		*93*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*36.7*		*ug/L*	*33.4*		*110*	*43-140*			
Surrogate: 4-Terphenyl-d14	*39.1*		*ug/L*	*33.4*		*117*	*50-134*			
Batch: B4E1127 - SW3510										
Blank (B4E1127-BLK1)				*Prepared: 05/23/2014 13:30*			*Analyzed: 05/24/2014 12:27*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*24.2*		*ug/L*	*33.4*		*72*	*19-119*			
Surrogate: Phenol-d5	*22.3*		*ug/L*	*33.4*		*67*	*10-115*			
Surrogate: Nitrobenzene-d5	*24.8*		*ug/L*	*33.4*		*75*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*27.0*		*ug/L*	*33.4*		*81*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*20.0*		*ug/L*	*33.4*		*60*	*43-140*			
Surrogate: 4-Terphenyl-d14	*38.5*		*ug/L*	*33.4*		*115*	*50-134*			
Blank (B4E1127-BLK2)				*Prepared: 05/23/2014 13:30*			*Analyzed: 06/24/2014 17:50*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*0.00*		*ug/L*	*33.4*			*19-119*			
Surrogate: Phenol-d5	*0.00*		*ug/L*	*33.4*			*10-115*			
Surrogate: Nitrobenzene-d5	*0.00*		*ug/L*	*33.4*			*44-120*			
Surrogate: 2-Fluorobiphenyl	*0.00*		*ug/L*	*33.4*			*44-119*			
Surrogate: 2,4,6-Tribromophenol	*0.00*		*ug/L*	*33.4*			*43-140*			
Surrogate: 4-Terphenyl-d14	*0.00*		*ug/L*	*33.4*			*50-134*			
LCS (B4E1127-BS1)				*Prepared: 05/23/2014 13:30*			*Analyzed: 05/24/2014 13:08*			
1,2,4-Trichlorobenzene	32.7	5.00	ug/L	50.0		65	29-116			
o-Dichlorobenzene (1,2-Dichlorobenzene)	33.8	5.00	ug/L	50.0		68	32-111			
p-Dichlorobenzene (1,4-Dichlorobenzene)	32.8	5.00	ug/L	50.0		66	29-112			
Benzo(a)pyrene	40.5	10.0	ug/L	50.0		81	54-128			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1127 - SW3510 *(Continued)*										
LCS (B4E1127-BS1) (Continued)				*Prepared: 05/23/2014 13:30*			*Analyzed: 05/24/2014 13:08*			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	41.0	10.0	ug/L	50.0		82	55-135			
Hexachlorocyclopentadiene	27.9	25.0	ug/L	50.0		56	50-150			
Pentachlorophenol	26.8	100	ug/L	50.0		54	35-138			
Surrogate: 2-Fluorophenol	*19.5*		*ug/L*	*33.4*		*58*	*19-119*			
Surrogate: Phenol-d5	*23.6*		*ug/L*	*33.4*		*71*	*10-115*			
Surrogate: Nitrobenzene-d5	*26.0*		*ug/L*	*33.4*		*78*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*26.9*		*ug/L*	*33.4*		*81*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*25.3*		*ug/L*	*33.4*		*76*	*43-140*			
Surrogate: 4-Terphenyl-d14	*36.6*		*ug/L*	*33.4*		*110*	*50-134*			
LCS Dup (B4E1127-BSD1)				*Prepared: 05/23/2014 13:30*			*Analyzed: 05/24/2014 13:49*			
1,2,4-Trichlorobenzene	34.6	5.00	ug/L	50.0		69	29-116	6	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	35.6	5.00	ug/L	50.0		71	32-111	5	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	34.6	5.00	ug/L	50.0		69	29-112	5	20	
Benzo(a)pyrene	43.1	10.0	ug/L	50.0		86	54-128	6	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	44.0	10.0	ug/L	50.0		88	55-135	7	20	
Hexachlorocyclopentadiene	32.2	25.0	ug/L	50.0		64	50-150	14	20	
Pentachlorophenol	36.5	100	ug/L	50.0		73	35-138	31	20	P
Surrogate: 2-Fluorophenol	*25.9*		*ug/L*	*33.4*		*78*	*19-119*			
Surrogate: Phenol-d5	*24.7*		*ug/L*	*33.4*		*74*	*10-115*			
Surrogate: Nitrobenzene-d5	*26.8*		*ug/L*	*33.4*		*80*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*28.4*		*ug/L*	*33.4*		*85*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*31.0*		*ug/L*	*33.4*		*93*	*43-140*			
Surrogate: 4-Terphenyl-d14	*37.0*		*ug/L*	*33.4*		*111*	*50-134*			
Batch: B4E1233										
Blank (B4E1233-BLK1)				*Prepared: 05/24/2014 10:00*			*Analyzed: 05/28/2014 16:23*			
Endothall	< 15.5	15.5	ug/L							
Surrogate: 2,4,6-Tribromophenol	*505*		*ug/L*	*334*		*151*	*20-200*			
LCS (B4E1233-BS1)				*Prepared: 05/24/2014 10:00*			*Analyzed: 05/28/2014 17:06*			
Endothall	705	15.5	ug/L	500		141	50-150			
Surrogate: 2,4,6-Tribromophenol	*518*		*ug/L*	*334*		*155*	*20-200*			
Duplicate (B4E1233-DUP1)		**Source: 14E0409-07**		*Prepared: 05/28/2014 12:23*			*Analyzed: 05/29/2014 01:47*			
Endothall	< 15.5	15.5	ug/L		ND				200	
Surrogate: 2,4,6-Tribromophenol	*388*		*ug/L*	*334*		*116*	*20-200*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2nd Quarter 2014 Sampling Event
Work Order: 14E0462

Report Date: 07/08/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4E1233 *(Continued)*										
Matrix Spike (B4E1233-MS1)		**Source: 14E0473-03**		*Prepared: 05/24/2014 10:00*		*Analyzed: 05/28/2014 18:33*				
Endothall	697	15.5	ug/L	500	ND	139	50-150			
Surrogate: 2,4,6-Tribromophenol	*488*		*ug/L*	*334*		*146*	*20-200*			

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report

Analyte	CAS #	Certifications
E420.1 Rev.1978 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6010C in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	AKDEC,ISO,WDNR,DoD,ILEPA
Barium	7440-39-3	AKDEC,ISO,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	AKDEC,ISO,WDNR,DoD,ILEPA
Chromium	7440-47-3	AKDEC,ISO,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,WDNR,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	AKDEC,ISO,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Nickel	7440-02-0	AKDEC,ISO,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane (gamma-BHC)	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR
SW8082A in Water		

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water (Continued)		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Benzene	71-43-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,ILEPA,DoD
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,ILEPA,DoD
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,ILEPA,DoD
Dichloromethane (Methylene chloride)	75-09-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Styrene	100-42-5	LELAP,WDNR,ILEPA,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Toluene	108-88-3	AKDEC,LELAP,WDNR,ILEPA,DoD
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,ILEPA,DoD
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,ILEPA,DoD
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene (1,2-Dichlorobenzene)	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene (1,4-Dichlorobenzene)	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321A in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9010Bby Aquachem in Water		
Cyanide	57-12-5	DoD,ILEPA,WDNR

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2014
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAC Accredited Lab No. 100256	003041	07/27/2014
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAC Accredited Lab No. 171344	05015	06/30/2014
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2014

Environmental Monitoring and Technologies, Inc.

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Qualifiers and Definitions

Item	Description
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
S Matrix	The spike recovery is outside the laboratory control limits, possibly due to the matrix.
%Rec	Percent Recovery

eurofins

Eaton Analytical

14E 0462, CWLP, JC

R-pt'd 6/23/14

LABORATORY REPORT

This report contains 6 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 318164
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3031550	14E0462-01	7500-Ra B	05/20/14 11:25	Client	05/22/14 09:00
3031550	14E0462-01	7500-Ra D	05/20/14 11:25	Client	05/22/14 09:00
3031551	14E0462-02	7500-Ra B	05/20/14 08:10	Client	05/22/14 09:00
3031551	14E0462-02	7500-Ra D	05/20/14 08:10	Client	05/22/14 09:00
3031552	14E0462-03	7500-Ra B	05/20/14 08:55	Client	05/22/14 09:00
3031552	14E0462-03	7500-Ra D	05/20/14 08:55	Client	05/22/14 09:00
3031553	14E0462-04	7500-Ra B	05/20/14 09:30	Client	05/22/14 09:00
3031553	14E0462-04	7500-Ra D	05/20/14 09:30	Client	05/22/14 09:00
3031554	14E0462-05	7500-Ra B	05/20/14 10:30	Client	05/22/14 09:00
3031554	14E0462-05	7500-Ra D	05/20/14 10:30	Client	05/22/14 09:00
3031555	14E0462-06	7500-Ra B	05/20/14 12:50	Client	05/22/14 09:00
3031555	14E0462-06	7500-Ra D	05/20/14 12:50	Client	05/22/14 09:00

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jim Van Fleit PM

Digitally signed by James Van Fleit
Date: 2014.06.23 13:44:53 -04'00'

Authorized Signature | Title | Date

Client Name: Environmental Monitoring Technologies
Report #: 318164

Client Name: Environmental Monitoring Technologies Report #: 318164

Sampling Point: 14E0462-01 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	1.3	**1.3 ± 1.0**	pCi/L	05/30/14 10:57	06/03/14 10:36	3031550
15262-20-1	Radium-228	7500-Ra D	---	0.65	0.36 ± 0.39	pCi/L	05/30/14 10:57	06/04/14 13:37	3031550
---	Combined Radium	calc.	5 *	1.3	**1.66 ± 1.04**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031550

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14E0462-02 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	-3.3	-23.3 ± 5.4	pCi/L	05/30/14 10:57	06/03/14 10:36	3031551
15262-20-1	Radium-228	7500-Ra D	---	0.7	**1.4 ± 0.5**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031551
---	Combined Radium	calc.	5 *	0.7	-21.9 ± 5.5	pCi/L	05/30/14 10:57	06/04/14 13:37	3031551

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14E0462-03 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	-0.04	-0.11 ± -0.04	pCi/L	05/30/14 10:57	06/03/14 10:36	3031552
15262-20-1	Radium-228	7500-Ra D	---	0.7	**1.6 ± 0.5**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031552
---	Combined Radium	calc.	5 *	0.7	**1.49 ± 0.47**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031552

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14E0462-04 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	-4.1	**-2.0 ± -2.5**	pCi/L	05/30/14 10:57	06/03/14 10:36	3031553
15262-20-1	Radium-228	7500-Ra D	---	0.78	0.77 ± 0.48	pCi/L	05/30/14 10:57	06/04/14 13:37	3031553
---	Combined Radium	calc.	5 *	0.78	-1.23 ± 2.55	pCi/L	05/30/14 10:57	06/04/14 13:37	3031553

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Client Name: Environmental Monitoring Technologies Report #: 318164

Sampling Point: 14E0462-05 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.8	**1.2 ± 0.7**	pCi/L	05/30/14 10:57	06/03/14 10:36	3031554
15262-20-1	Radium-228	7500-Ra D	---	0.60	0.53 ± 0.37	pCi/L	05/30/14 10:57	06/04/14 13:37	3031554
---	Combined Radium	calc.	5 *	0.8	**1.73 ± 0.80**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031554

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14E0462-06 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	-0.02	-0.03 ± -0.02	pCi/L	05/30/14 10:57	06/03/14 10:36	3031555
15262-20-1	Radium-228	7500-Ra D	---	0.48	**0.95 ± 0.33**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031555
---	Combined Radium	calc.	5 *	0.48	**0.92 ± 0.33**	pCi/L	05/30/14 10:57	06/04/14 13:37	3031555

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Client Name: Environmental Monitoring Technologies Report #: 318164

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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SUBCONTRACT ORDER

318164

Environmental Monitoring and Technologies, Inc

14E0462

255612

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins (Underwriters Laboratory), Subcontract
110 South Hill St (Now: Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone:(574) 233-4777
Fax: (847) 307-1916

Analysis	Due	Expires	Comments
Laboratory ID			
Sample ID: 14E0462-01 **Water** **Sampled:05/20/14 11:25**			
Radiation Testing, Subcontracted	05/28/14 10:00	06/19/14 11:25	PO#: 33990, for Radium 226 & 228
Containers Supplied:			
Sample ID: 14E0462-02 **Water** **Sampled:05/20/14 08:10**			
Radiation Testing, Subcontracted	05/28/14 10:00	06/19/14 08:10	PO#: 33990, for Radium 226 & 228
Containers Supplied:			
Sample ID: 14E0462-03 **Water** **Sampled:05/20/14 08:55**			
Radiation Testing, Subcontracted	05/28/14 10:00	06/19/14 08:55	PO#: 33990, for Radium 226 & 228
Containers Supplied:			
Sample ID: 14E0462-04 **Water** **Sampled:05/20/14 09:30**			
Radiation Testing, Subcontracted	05/28/14 10:00	06/19/14 09:30	PO#: 33990, for Radium 226 & 228
Containers Supplied:			
Sample ID: 14E0462-05 **Water** **Sampled:05/20/14 10:30**			
Radiation Testing, Subcontracted	05/28/14 10:00	06/19/14 10:30	PO#: 33990, for Radium 226 & 228
Containers Supplied:			
Sample ID: 14E0462-06 **Water** **Sampled:05/20/14 12:50**			
Radiation Testing, Subcontracted	05/28/14 10:00	06/19/14 12:50	PO#: 33990, for Radium 226 & 228
Containers Supplied:			

Relinquished By — Date: 5/21/14 — Received By — Date

Relinquished By — Date — Received By — Date

Response to 1st RTP
CWLP - 02434

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Environmental Monitoring and Technologies, Inc.

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

October 01, 2014

Work Order: 14H0660

RE: List G20
Third Quarter 2014

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 10/1/2014 2:26:03PM

Approved by,

Marilyn Krueding
Laboratory Director

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.
Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

Electronic Filing: Received, Clerk's Office 01/29/2020

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Case Narrative

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Date: 10/01/2014

Sample Summary

Lab ID	Client Sample ID	Matrix	Sampled Date
14H0660-01		AW-3 Water	8/26/2014 1:20:00 PM
14H0660-02		AP-1 Water	8/26/2014 12:10:00 PM
14H0660-03		AP-2 Water	8/26/2014 11:45:00 AM
14H0660-04		AP-3 Water	8/26/2014 11:10:00 AM
14H0660-05		AP-4 Water	8/26/2014 11:20:00 AM
14H0660-06		AP-5 Water	8/26/2014 8:45:00 AM

Work Order: 14H0660
The samples were received on 8/26/2014 6:10:00 PM . The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 6 degrees C.

14H0660-06: Radium 226/228 could not be analyzed by the subcontract laboratory due to the amound of sediment present in the sample causing precipitation issues with the analysis.

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AW-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 13:20
Matrix: Groundwater
Lab ID: 14H0660-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**819**	0.00		uS/cm	08/26/14 13:20	B4I0159	JB2
Method: SM2550-B							
Temperature	**67.3**	1.00		°F	08/26/14 13:20	B4I0159	JB2
Method: SM4500-H							
pH	**7.18**	0.05		pH Units	08/26/14 13:20	B4I0159	JB2
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Arsenic	**0.134**	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Barium	**0.183**	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Beryllium	< 0.00312	0.00312		mg/L	09/03/14 12:38	B4H1228	AG
Boron	**0.144**	0.0156		mg/L	09/03/14 12:38	B4H1228	AG
Cadmium	< 0.00312	0.00312		mg/L	09/03/14 12:38	B4H1228	AG
Chromium	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Cobalt	< 0.0156	0.0156		mg/L	09/03/14 12:38	B4H1228	AG
Copper	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Iron	**11.0**	0.625		mg/L	09/03/14 12:38	B4H1228	AG
Lead	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Manganese	**0.256**	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Nickel	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Selenium	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Silver	< 0.00312	0.00312		mg/L	09/03/14 12:38	B4H1228	AG
Thallium	< 0.0312	0.0312		mg/L	09/03/14 12:38	B4H1228	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	09/03/14 14:35	B4I0112	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**23.3**	2.00		mg/L	08/29/14 20:31	B4I0059	wcicu
Fluoride	< 0.500	0.500		mg/L	08/29/14 20:31	B4I0059	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/29/14 20:31	B4I0059	wcicu
Sulfate	**11.0**	5.00		mg/L	08/29/14 20:31	B4I0059	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	09/02/14 11:39	B4I0014	JN1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AW-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 13:20
Matrix: Groundwater
Lab ID: 14H0660-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**454**	10.0		mg/L		08/29/14 07:50	B4H1206	TB2
Method: SW9010Bby Aquachem / SW9010B								
Cyanide	< 0.0100	0.0100		mg/L		08/29/14 13:38	B4H1225	JN1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.332	0.332		ug/L		09/08/14 15:16	B4I0027	LP
Atrazine	< 0.332	0.332		ug/L		09/08/14 15:16	B4I0027	LP
Chlordane	< 0.332	0.332		ug/L		09/08/14 15:16	B4I0027	LP
Endrin	< 0.199	0.199		ug/L		09/08/14 15:16	B4I0027	LP
Lindane	< 0.199	0.199		ug/L		09/08/14 15:16	B4I0027	LP
Heptachlor	< 0.199	0.199		ug/L		09/08/14 15:16	B4I0027	LP
Heptachlor epoxide	< 0.199	0.199		ug/L		09/08/14 15:16	B4I0027	LP
Methoxychlor	< 0.199	0.199		ug/L		09/08/14 15:16	B4I0027	LP
Simazine	< 0.332	0.332		ug/L		09/08/14 15:16	B4I0027	LP
Toxaphene	< 0.997	0.997		ug/L		09/08/14 15:16	B4I0027	LP
Surrogate: Decachlorobiphenyl				*Recovery: 73%*	*Limits: 30-135*	*09/08/14 15:16*	*B4I0027*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 42%*	*Limits: 44-124*	*09/08/14 15:16*	*B4I0027*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.166	0.166		ug/L		08/28/14 17:14	B4H1101	NCH
Aroclor 1221	< 0.266	0.266		ug/L		08/28/14 17:14	B4H1101	NCH
Aroclor 1232	< 0.332	0.332		ug/L		08/28/14 17:14	B4H1101	NCH
Aroclor 1242	< 0.332	0.332		ug/L		08/28/14 17:14	B4H1101	NCH
Aroclor 1248	< 0.332	0.332		ug/L		08/28/14 17:14	B4H1101	NCH
Aroclor 1254	< 0.266	0.266		ug/L		08/28/14 17:14	B4H1101	NCH
Aroclor 1260	< 0.166	0.166		ug/L		08/28/14 17:14	B4H1101	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 77%*	*Limits: 40-135*	*08/28/14 17:14*	*B4H1101*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 13-133*	*08/28/14 17:14*	*B4H1101*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		09/09/14 13:35	B4I0344	EMT
Carbofuran	< 2.00	2.00		ug/L		09/09/14 13:35	B4I0344	EMT
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AW-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 13:20
Matrix: Groundwater
Lab ID: 14H0660-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
2,4,5-TP (Silvex)	< 0.999	0.999		ug/L		09/09/14 14:11	B4I0026	MNN
2,4-D	< 0.999	0.999		ug/L		09/09/14 14:11	B4I0026	MNN
Dinoseb	< 0.999	0.999		ug/L		09/09/14 14:11	B4I0026	MNN
Picloram	< 0.999	0.999		ug/L		09/09/14 14:11	B4I0026	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 99%*	*Limits: 20-138*	*09/09/14 14:11*	*B4I0026*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Benzene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		08/28/14 02:33	B4I0343	JL
Chlorobenzene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 02:33	B4I0343	JL
Ethylbenzene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Dichloromethane	**3.37**	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Styrene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Tetrachloroethene	< 4.00	4.00		ug/L		08/28/14 02:33	B4I0343	JL
Toluene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 02:33	B4I0343	JL
Trichloroethene	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Vinyl chloride	< 2.00	2.00		ug/L		08/28/14 02:33	B4I0343	JL
Xylenes, Total	< 8.00	8.00		ug/L		08/28/14 02:33	B4I0343	JL
Surrogate: Dibromofluoromethane			*S*	*Recovery: 123%*	*Limits: 80-119*	*08/28/14 02:33*	*B4I0343*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 108%*	*Limits: 81-118*	*08/28/14 02:33*	*B4I0343*	*JL*
Surrogate: Fluorobenzene				*Recovery: 89%*	*Limits: 80-116*	*08/28/14 02:33*	*B4I0343*	*JL*
Surrogate: Toluene-d8			*S*	*Recovery: 83%*	*Limits: 89-112*	*08/28/14 02:33*	*B4I0343*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 112%*	*Limits: 85-114*	*08/28/14 02:33*	*B4I0343*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 122%*	*Limits: 70-120*	*08/28/14 02:33*	*B4I0343*	*JL*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		09/02/14 20:42	B4I0379	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		09/02/14 20:42	B4I0379	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AW-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 13:20
Matrix: Groundwater
Lab ID: 14H0660-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		09/02/14 19:22	B4I0265	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 79%*	*Limits: 70-130*	*09/02/14 19:22*	*B4I0265*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		09/11/14 05:16	B4I0009	RYL
Surrogate: 2,4,6-Tribromophenol				*Recovery: 132%*	*Limits: 20-200*	*09/11/14 05:16*	*B4I0009*	*RYL*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.666	0.666		ug/L		09/03/14 17:24	B4H1129	SJ
o-Dichlorobenzene	< 0.666	0.666		ug/L		09/03/14 17:24	B4H1129	SJ
p-Dichlorobenzene	< 0.666	0.666		ug/L		09/03/14 17:24	B4H1129	SJ
Benzo(a)pyrene	< 1.33	1.33		ug/L		09/03/14 17:24	B4H1129	SJ
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		09/03/14 17:24	B4H1129	SJ
Hexachlorocyclopentadiene	< 3.33	3.33		ug/L		09/03/14 17:24	B4H1129	SJ
Pentachlorophenol	< 13.3	13.3		ug/L		09/03/14 17:24	B4H1129	SJ
Surrogate: 2-Fluorophenol				*Recovery: 22%*	*Limits: 19-119*	*09/03/14 17:24*	*B4H1129*	*SJ*
Surrogate: Phenol-d5				*Recovery: 14%*	*Limits: 10-115*	*09/03/14 17:24*	*B4H1129*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 57%*	*Limits: 44-120*	*09/03/14 17:24*	*B4H1129*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 58%*	*Limits: 44-119*	*09/03/14 17:24*	*B4H1129*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 46%*	*Limits: 43-140*	*09/03/14 17:24*	*B4H1129*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 93%*	*Limits: 50-134*	*09/03/14 17:24*	*B4H1129*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses						
Method: SM7500						
Radium-226	**0.47**	0.56		pCi/L	09/09/14 00:00	UL
Radium-228	**0.93**	0.38		pCi/L	09/22/14 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-1
Report Date: 10/01/2014
Collection Date: 08/26/2014 12:10
Matrix: Groundwater
Lab ID: 14H0660-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**506.4700**	0.000000		No unit	08/26/14 12:10	B4I0159	SDS
Depth to water (feet below land surface)	**8.270000**	0.000000		No unit	08/26/14 12:10	B4I0159	SDS
Depth to water (feet from measuring point)	**10.54000**	0.000000		No unit	08/26/14 12:10	B4I0159	SDS
Elevation of groundwater surface (Feet)	**527.2600**	0.000000		No unit	08/26/14 12:10	B4I0159	SDS
Method: SM2510B							
Specific Conductance	**1580**	0.00		uS/cm	08/26/14 12:10	B4I0159	SDS
Method: SM2550-B							
Temperature	**61.5**	1.00		°F	08/26/14 12:10	B4I0159	SDS
Method: SM4500-H							
pH	**6.92**	0.05		pH Units	08/26/14 12:10	B4I0159	SDS
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Arsenic	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Barium	**0.694**	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Beryllium	< 0.00312	0.00312		mg/L	09/03/14 12:40	B4H1228	AG
Boron	**18.0**	0.0156		mg/L	09/03/14 12:40	B4H1228	AG
Cadmium	< 0.00312	0.00312		mg/L	09/03/14 12:40	B4H1228	AG
Chromium	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Cobalt	< 0.0156	0.0156		mg/L	09/03/14 12:40	B4H1228	AG
Copper	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Iron	**32.5**	0.625		mg/L	09/03/14 12:40	B4H1228	AG
Lead	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Manganese	**0.484**	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Nickel	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Selenium	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Silver	< 0.00312	0.00312		mg/L	09/03/14 12:40	B4H1228	AG
Thallium	< 0.0312	0.0312		mg/L	09/03/14 12:40	B4H1228	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	09/03/14 14:37	B4I0112	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**46.5**	2.00		mg/L	08/29/14 22:31	B4I0059	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-1
Report Date: 10/01/2014
Collection Date: 08/26/2014 12:10
Matrix: Groundwater
Lab ID: 14H0660-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	08/29/14 22:31	B4I0059	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/29/14 22:31	B4I0059	wcicu
Sulfate	**594**	50.0		mg/L	09/12/14 13:24	B4I0542	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	09/02/14 11:39	B4I0014	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1300**	10.0		mg/L	08/29/14 07:50	B4H1206	TB2
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	08/29/14 13:38	B4H1225	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.331	0.331		ug/L	09/08/14 16:03	B4I0027	LP
Atrazine	< 0.331	0.331		ug/L	09/08/14 16:03	B4I0027	LP
Chlordane	< 0.331	0.331		ug/L	09/08/14 16:03	B4I0027	LP
Endrin	< 0.199	0.199		ug/L	09/08/14 16:03	B4I0027	LP
Lindane	< 0.199	0.199		ug/L	09/08/14 16:03	B4I0027	LP
Heptachlor	< 0.199	0.199		ug/L	09/08/14 16:03	B4I0027	LP
Heptachlor epoxide	< 0.199	0.199		ug/L	09/08/14 16:03	B4I0027	LP
Methoxychlor	< 0.199	0.199		ug/L	09/08/14 16:03	B4I0027	LP
Simazine	< 0.331	0.331		ug/L	09/08/14 16:03	B4I0027	LP
Toxaphene	< 0.993	0.993		ug/L	09/08/14 16:03	B4I0027	LP
Surrogate: Decachlorobiphenyl				*Recovery: 79%*	*Limits: 30-135*	*09/08/14 16:03*	*B4I0027*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 48%*	*Limits: 44-124*	*09/08/14 16:03*	*B4I0027*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.165	0.165		ug/L	08/28/14 17:43	B4H1101	NCH
Aroclor 1221	< 0.265	0.265		ug/L	08/28/14 17:43	B4H1101	NCH
Aroclor 1232	< 0.331	0.331		ug/L	08/28/14 17:43	B4H1101	NCH
Aroclor 1242	< 0.331	0.331		ug/L	08/28/14 17:43	B4H1101	NCH
Aroclor 1248	< 0.331	0.331		ug/L	08/28/14 17:43	B4H1101	NCH
Aroclor 1254	< 0.265	0.265		ug/L	08/28/14 17:43	B4H1101	NCH
Aroclor 1260	< 0.165	0.165		ug/L	08/28/14 17:43	B4H1101	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 72%*	*Limits: 40-135*	*08/28/14 17:43*	*B4H1101*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 41%*	*Limits: 13-133*	*08/28/14 17:43*	*B4H1101*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-1
Report Date: 10/01/2014
Collection Date: 08/26/2014 12:10
Matrix: Groundwater
Lab ID: 14H0660-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		09/09/14 14:11	B4I0344	EMT
Carbofuran	< 2.00	2.00		ug/L		09/09/14 14:11	B4I0344	EMT
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.997	0.997		ug/L		09/09/14 14:53	B4I0026	MNN
2,4-D	< 0.997	0.997		ug/L		09/09/14 14:53	B4I0026	MNN
Dinoseb	< 0.997	0.997		ug/L		09/09/14 14:53	B4I0026	MNN
Picloram	< 0.997	0.997		ug/L		09/09/14 14:53	B4I0026	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 98%*	*Limits: 20-138*	*09/09/14 14:53*	*B4I0026*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Benzene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		08/28/14 03:06	B4I0343	JL
Chlorobenzene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 03:06	B4I0343	JL
Ethylbenzene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Dichloromethane	**3.06**	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Styrene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Tetrachloroethene	< 4.00	4.00		ug/L		08/28/14 03:06	B4I0343	JL
Toluene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 03:06	B4I0343	JL
Trichloroethene	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Vinyl chloride	< 2.00	2.00		ug/L		08/28/14 03:06	B4I0343	JL
Xylenes, Total	< 8.00	8.00		ug/L		08/28/14 03:06	B4I0343	JL
Surrogate: Dibromofluoromethane			*S*	*Recovery: 137%*	*Limits: 80-119*	*08/28/14 03:06*	*B4I0343*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 113%*	*Limits: 81-118*	*08/28/14 03:06*	*B4I0343*	*JL*
Surrogate: Fluorobenzene				*Recovery: 84%*	*Limits: 80-116*	*08/28/14 03:06*	*B4I0343*	*JL*
Surrogate: Toluene-d8			*S*	*Recovery: 77%*	*Limits: 89-112*	*08/28/14 03:06*	*B4I0343*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 110%*	*Limits: 85-114*	*08/28/14 03:06*	*B4I0343*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 122%*	*Limits: 70-120*	*08/28/14 03:06*	*B4I0343*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-1
Report Date: 10/01/2014
Collection Date: 08/26/2014 12:10
Matrix: Groundwater
Lab ID: 14H0660-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		09/02/14 21:13	B4I0379	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		09/02/14 21:13	B4I0379	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		09/02/14 20:47	B4I0265	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 84%*	*Limits: 70-130*	*09/02/14 20:47*	*B4I0265*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		09/11/14 01:40	B4I0009	RYL
Surrogate: 2,4,6-Tribromophenol				*Recovery: 140%*	*Limits: 20-200*	*09/11/14 01:40*	*B4I0009*	*RYL*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.661	0.661		ug/L		09/03/14 18:06	B4H1129	SJ
o-Dichlorobenzene	< 0.661	0.661		ug/L		09/03/14 18:06	B4H1129	SJ
p-Dichlorobenzene	< 0.661	0.661		ug/L		09/03/14 18:06	B4H1129	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		09/03/14 18:06	B4H1129	SJ
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		09/03/14 18:06	B4H1129	SJ
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		09/03/14 18:06	B4H1129	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		09/03/14 18:06	B4H1129	SJ
Surrogate: 2-Fluorophenol				*Recovery: 21%*	*Limits: 19-119*	*09/03/14 18:06*	*B4H1129*	*SJ*
Surrogate: Phenol-d5				*Recovery: 13%*	*Limits: 10-115*	*09/03/14 18:06*	*B4H1129*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 63%*	*Limits: 44-120*	*09/03/14 18:06*	*B4H1129*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 64%*	*Limits: 44-119*	*09/03/14 18:06*	*B4H1129*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 48%*	*Limits: 43-140*	*09/03/14 18:06*	*B4H1129*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 92%*	*Limits: 50-134*	*09/03/14 18:06*	*B4H1129*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**2.6**	0.5		pCi/L		09/09/14 00:00	UL
Radium-228	**1.4**	0.3		pCi/L		09/22/14 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-2
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:45
Matrix: Groundwater
Lab ID: 14H0660-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**520.5200**	0.000000		No unit	08/26/14 11:45	B4I0159	PB
Depth to water (feet below land surface)	**4.150000**	0.000000		No unit	08/26/14 11:45	B4I0159	PB
Depth to water (feet from measuring point)	**6.390000**	0.000000		No unit	08/26/14 11:45	B4I0159	PB
Elevation of groundwater surface (Feet)	**533.9100**	0.000000		No unit	08/26/14 11:45	B4I0159	PB
Method: SM2510B							
Specific Conductance	**1320**	0.00		uS/cm	08/26/14 11:45	B4I0159	PB
Method: SM2550-B							
Temperature	**69.9**	1.00		°F	08/26/14 11:45	B4I0159	PB
Method: SM4500-H							
pH	**6.87**	0.05		pH Units	08/26/14 11:45	B4I0159	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Arsenic	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Barium	**0.242**	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Beryllium	< 0.00312	0.00312		mg/L	09/03/14 12:49	B4H1228	AG
Boron	**4.84**	0.0156		mg/L	09/03/14 12:49	B4H1228	AG
Cadmium	< 0.00312	0.00312		mg/L	09/03/14 12:49	B4H1228	AG
Chromium	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Cobalt	< 0.0156	0.0156		mg/L	09/03/14 12:49	B4H1228	AG
Copper	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Iron	**20.1**	0.625		mg/L	09/03/14 12:49	B4H1228	AG
Lead	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Manganese	**19.8**	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Nickel	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Selenium	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Silver	< 0.00312	0.00312		mg/L	09/03/14 12:49	B4H1228	AG
Thallium	< 0.0312	0.0312		mg/L	09/03/14 12:49	B4H1228	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	09/03/14 14:39	B4I0112	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**24.1**	2.00		mg/L	08/30/14 07:08	B4I0059	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-2
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:45
Matrix: Groundwater
Lab ID: 14H0660-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	08/30/14 07:08	B4I0059	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/30/14 07:08	B4I0059	wcicu
Sulfate	**364**	50.0		mg/L	09/12/14 14:04	B4I0542	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	**0.0170**	0.0100		mg/L	09/02/14 11:39	B4I0014	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1000**	10.0		mg/L	08/29/14 07:50	B4H1206	TB2
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	08/29/14 13:38	B4H1225	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.329	0.329		ug/L	09/08/14 16:58	B4I0027	LP
Atrazine	< 0.329	0.329		ug/L	09/08/14 16:58	B4I0027	LP
Chlordane	< 0.329	0.329		ug/L	09/08/14 16:58	B4I0027	LP
Endrin	< 0.197	0.197		ug/L	09/08/14 16:58	B4I0027	LP
Lindane	< 0.197	0.197		ug/L	09/08/14 16:58	B4I0027	LP
Heptachlor	< 0.197	0.197		ug/L	09/08/14 16:58	B4I0027	LP
Heptachlor epoxide	< 0.197	0.197		ug/L	09/08/14 16:58	B4I0027	LP
Methoxychlor	< 0.197	0.197		ug/L	09/08/14 16:58	B4I0027	LP
Simazine	< 0.329	0.329		ug/L	09/08/14 16:58	B4I0027	LP
Toxaphene	< 0.987	0.987		ug/L	09/08/14 16:58	B4I0027	LP
Surrogate: Decachlorobiphenyl				*Recovery: 69%*	*Limits: 30-135*	*09/08/14 16:58*	*B4I0027*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 38%*	*Limits: 44-124*	*09/08/14 16:58*	*B4I0027*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.165	0.165		ug/L	08/28/14 18:12	B4H1101	NCH
Aroclor 1221	< 0.263	0.263		ug/L	08/28/14 18:12	B4H1101	NCH
Aroclor 1232	< 0.329	0.329		ug/L	08/28/14 18:12	B4H1101	NCH
Aroclor 1242	< 0.329	0.329		ug/L	08/28/14 18:12	B4H1101	NCH
Aroclor 1248	< 0.329	0.329		ug/L	08/28/14 18:12	B4H1101	NCH
Aroclor 1254	< 0.263	0.263		ug/L	08/28/14 18:12	B4H1101	NCH
Aroclor 1260	< 0.165	0.165		ug/L	08/28/14 18:12	B4H1101	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 99%*	*Limits: 40-135*	*08/28/14 18:12*	*B4H1101*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 13-133*	*08/28/14 18:12*	*B4H1101*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-2
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:45
Matrix: Groundwater
Lab ID: 14H0660-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		09/09/14 14:47	B4I0344	EMT
Carbofuran	< 2.00	2.00		ug/L		09/09/14 14:47	B4I0344	EMT
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.985	0.985		ug/L		09/09/14 15:35	B4I0026	MNN
2,4-D	< 0.985	0.985		ug/L		09/09/14 15:35	B4I0026	MNN
Dinoseb	< 0.985	0.985		ug/L		09/09/14 15:35	B4I0026	MNN
Picloram	< 0.985	0.985		ug/L		09/09/14 15:35	B4I0026	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 81%*	*Limits: 20-138*	*09/09/14 15:35*	*B4I0026*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Benzene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		08/28/14 03:39	B4I0343	JL
Chlorobenzene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 03:39	B4I0343	JL
Ethylbenzene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Dichloromethane	**3.15**	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Styrene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Tetrachloroethene	< 4.00	4.00		ug/L		08/28/14 03:39	B4I0343	JL
Toluene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 03:39	B4I0343	JL
Trichloroethene	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Vinyl chloride	< 2.00	2.00		ug/L		08/28/14 03:39	B4I0343	JL
Xylenes, Total	< 8.00	8.00		ug/L		08/28/14 03:39	B4I0343	JL
Surrogate: Dibromofluoromethane			*S*	*Recovery: 134%*	*Limits: 80-119*	*08/28/14 03:39*	*B4I0343*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 111%*	*Limits: 81-118*	*08/28/14 03:39*	*B4I0343*	*JL*
Surrogate: Fluorobenzene				*Recovery: 89%*	*Limits: 80-116*	*08/28/14 03:39*	*B4I0343*	*JL*
Surrogate: Toluene-d8			*S*	*Recovery: 71%*	*Limits: 89-112*	*08/28/14 03:39*	*B4I0343*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 111%*	*Limits: 85-114*	*08/28/14 03:39*	*B4I0343*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 123%*	*Limits: 70-120*	*08/28/14 03:39*	*B4I0343*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-2
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:45
Matrix: Groundwater
Lab ID: 14H0660-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		09/02/14 21:44	B4I0379	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		09/02/14 21:44	B4I0379	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		09/02/14 21:30	B4I0265	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 82%*	*Limits: 70-130*	*09/02/14 21:30*	*B4I0265*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		09/11/14 05:59	B4I0009	RYL
Surrogate: 2,4,6-Tribromophenol				*Recovery: 134%*	*Limits: 20-200*	*09/11/14 05:59*	*B4I0009*	*RYL*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.666	0.666		ug/L		09/03/14 18:47	B4H1129	SJ
o-Dichlorobenzene	< 0.666	0.666		ug/L		09/03/14 18:47	B4H1129	SJ
p-Dichlorobenzene	< 0.666	0.666		ug/L		09/03/14 18:47	B4H1129	SJ
Benzo(a)pyrene	< 1.33	1.33		ug/L		09/03/14 18:47	B4H1129	SJ
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		09/03/14 18:47	B4H1129	SJ
Hexachlorocyclopentadiene	< 3.33	3.33		ug/L		09/03/14 18:47	B4H1129	SJ
Pentachlorophenol	< 13.3	13.3		ug/L		09/03/14 18:47	B4H1129	SJ
Surrogate: 2-Fluorophenol			*S*	*Recovery: 3%*	*Limits: 19-119*	*09/03/14 18:47*	*B4H1129*	*SJ*
Surrogate: Phenol-d5			*S*	*Recovery: 2%*	*Limits: 10-115*	*09/03/14 18:47*	*B4H1129*	*SJ*
Surrogate: Nitrobenzene-d5			*S*	*Recovery: 30%*	*Limits: 44-120*	*09/03/14 18:47*	*B4H1129*	*SJ*
Surrogate: 2-Fluorobiphenyl			*S*	*Recovery: 35%*	*Limits: 44-119*	*09/03/14 18:47*	*B4H1129*	*SJ*
Surrogate: 2,4,6-Tribromophenol			*S*	*Recovery: 39%*	*Limits: 43-140*	*09/03/14 18:47*	*B4H1129*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 93%*	*Limits: 50-134*	*09/03/14 18:47*	*B4H1129*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**-0.9**	-0.34		pCi/L		09/09/14 00:00	UL
Radium-228	**0.62**	0.42		pCi/L		09/22/14 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:10
Matrix: Groundwater
Lab ID: 14H0660-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**516.5500**	0.000000		No unit	08/26/14 11:10	B4I0159	PB
Depth to water (feet below land surface)	**5.180000**	0.000000		No unit	08/26/14 11:10	B4I0159	PB
Depth to water (feet from measuring point)	**6.880000**	0.000000		No unit	08/26/14 11:10	B4I0159	PB
Elevation of groundwater surface (Feet)	**528.7200**	0.000000		No unit	08/26/14 11:10	B4I0159	PB
Method: SM2510B							
Specific Conductance	**1220**	0.00		uS/cm	08/26/14 11:10	B4I0159	PB
Method: SM2550-B							
Temperature	**69.1**	1.00		°F	08/26/14 11:10	B4I0159	PB
Method: SM4500-H							
pH	**7.03**	0.05		pH Units	08/26/14 11:10	B4I0159	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Arsenic	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Barium	**0.0979**	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Beryllium	< 0.00312	0.00312		mg/L	09/03/14 12:51	B4H1228	AG
Boron	**19.2**	0.0156		mg/L	09/03/14 12:51	B4H1228	AG
Cadmium	< 0.00312	0.00312		mg/L	09/03/14 12:51	B4H1228	AG
Chromium	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Cobalt	< 0.0156	0.0156		mg/L	09/03/14 12:51	B4H1228	AG
Copper	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Iron	**14.4**	0.625		mg/L	09/03/14 12:51	B4H1228	AG
Lead	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Manganese	**8.94**	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Nickel	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Selenium	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Silver	< 0.00312	0.00312		mg/L	09/03/14 12:51	B4H1228	AG
Thallium	< 0.0312	0.0312		mg/L	09/03/14 12:51	B4H1228	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	09/03/14 14:41	B4I0112	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**43.3**	2.00		mg/L	08/30/14 07:48	B4I0059	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:10
Matrix: Groundwater
Lab ID: 14H0660-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	08/30/14 07:48	B4I0059	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/30/14 07:48	B4I0059	wcicu
Sulfate	**356**	50.0		mg/L	09/12/14 14:44	B4I0542	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	09/02/14 11:39	B4I0014	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**880**	10.0		mg/L	08/29/14 07:50	B4H1206	TB2
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	08/29/14 13:38	B4H1225	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.333	0.333		ug/L	09/08/14 17:45	B4I0027	LP
Atrazine	< 0.333	0.333		ug/L	09/08/14 17:45	B4I0027	LP
Chlordane	< 0.333	0.333		ug/L	09/08/14 17:45	B4I0027	LP
Endrin	< 0.200	0.200		ug/L	09/08/14 17:45	B4I0027	LP
Lindane	< 0.200	0.200		ug/L	09/08/14 17:45	B4I0027	LP
Heptachlor	< 0.200	0.200		ug/L	09/08/14 17:45	B4I0027	LP
Heptachlor epoxide	< 0.200	0.200		ug/L	09/08/14 17:45	B4I0027	LP
Methoxychlor	< 0.200	0.200		ug/L	09/08/14 17:45	B4I0027	LP
Simazine	< 0.333	0.333		ug/L	09/08/14 17:45	B4I0027	LP
Toxaphene	< 0.998	0.998		ug/L	09/08/14 17:45	B4I0027	LP
Surrogate: Decachlorobiphenyl				*Recovery: 82%*	*Limits: 30-135*	*09/08/14 17:45*	*B4I0027*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 44-124*	*09/08/14 17:45*	*B4I0027*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.166	0.166		ug/L	08/28/14 18:41	B4H1101	NCH
Aroclor 1221	< 0.266	0.266		ug/L	08/28/14 18:41	B4H1101	NCH
Aroclor 1232	< 0.333	0.333		ug/L	08/28/14 18:41	B4H1101	NCH
Aroclor 1242	< 0.333	0.333		ug/L	08/28/14 18:41	B4H1101	NCH
Aroclor 1248	< 0.333	0.333		ug/L	08/28/14 18:41	B4H1101	NCH
Aroclor 1254	< 0.266	0.266		ug/L	08/28/14 18:41	B4H1101	NCH
Aroclor 1260	< 0.166	0.166		ug/L	08/28/14 18:41	B4H1101	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 91%*	*Limits: 40-135*	*08/28/14 18:41*	*B4H1101*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 13-133*	*08/28/14 18:41*	*B4H1101*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:10
Matrix: Groundwater
Lab ID: 14H0660-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		09/09/14 15:24	B4I0344	EMT
Carbofuran	< 2.00	2.00		ug/L		09/09/14 15:24	B4I0344	EMT
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.980	0.980		ug/L		09/09/14 16:17	B4I0026	MNN
2,4-D	< 0.980	0.980		ug/L		09/09/14 16:17	B4I0026	MNN
Dinoseb	< 0.980	0.980		ug/L		09/09/14 16:17	B4I0026	MNN
Picloram	< 0.980	0.980		ug/L		09/09/14 16:17	B4I0026	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 87%*	*Limits: 20-138*	*09/09/14 16:17*	*B4I0026*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Benzene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		08/28/14 04:11	B4I0343	JL
Chlorobenzene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 04:11	B4I0343	JL
Ethylbenzene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Dichloromethane	**3.26**	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Styrene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Tetrachloroethene	< 4.00	4.00		ug/L		08/28/14 04:11	B4I0343	JL
Toluene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 04:11	B4I0343	JL
Trichloroethene	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Vinyl chloride	< 2.00	2.00		ug/L		08/28/14 04:11	B4I0343	JL
Xylenes, Total	< 8.00	8.00		ug/L		08/28/14 04:11	B4I0343	JL
Surrogate: Dibromofluoromethane			*S*	*Recovery: 138%*	*Limits: 80-119*	*08/28/14 04:11*	*B4I0343*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 116%*	*Limits: 81-118*	*08/28/14 04:11*	*B4I0343*	*JL*
Surrogate: Fluorobenzene				*Recovery: 85%*	*Limits: 80-116*	*08/28/14 04:11*	*B4I0343*	*JL*
Surrogate: Toluene-d8			*S*	*Recovery: 71%*	*Limits: 89-112*	*08/28/14 04:11*	*B4I0343*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 110%*	*Limits: 85-114*	*08/28/14 04:11*	*B4I0343*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 119%*	*Limits: 70-120*	*08/28/14 04:11*	*B4I0343*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-3
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:10
Matrix: Groundwater
Lab ID: 14H0660-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		09/02/14 22:16	B4I0379	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		09/02/14 22:16	B4I0379	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		09/03/14 11:41	B4I0265	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 75%*	*Limits: 70-130*	*09/03/14 11:41*	*B4I0265*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		09/11/14 09:20	B4I0009	RYL
Surrogate: 2,4,6-Tribromophenol				*Recovery: 140%*	*Limits: 20-200*	*09/11/14 09:20*	*B4I0009*	*RYL*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.665	0.665		ug/L		09/03/14 19:28	B4H1129	SJ
o-Dichlorobenzene	< 0.665	0.665		ug/L		09/03/14 19:28	B4H1129	SJ
p-Dichlorobenzene	< 0.665	0.665		ug/L		09/03/14 19:28	B4H1129	SJ
Benzo(a)pyrene	< 1.33	1.33		ug/L		09/03/14 19:28	B4H1129	SJ
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		09/03/14 19:28	B4H1129	SJ
Hexachlorocyclopentadiene	< 3.33	3.33		ug/L		09/03/14 19:28	B4H1129	SJ
Pentachlorophenol	< 13.3	13.3		ug/L		09/03/14 19:28	B4H1129	SJ
Surrogate: 2-Fluorophenol			*S*	*Recovery: 1%*	*Limits: 19-119*	*09/03/14 19:28*	*B4H1129*	*SJ*
Surrogate: Phenol-d5			*S*	*Recovery: 0.7%*	*Limits: 10-115*	*09/03/14 19:28*	*B4H1129*	*SJ*
Surrogate: Nitrobenzene-d5			*S*	*Recovery: 28%*	*Limits: 44-120*	*09/03/14 19:28*	*B4H1129*	*SJ*
Surrogate: 2-Fluorobiphenyl			*S*	*Recovery: 31%*	*Limits: 44-119*	*09/03/14 19:28*	*B4H1129*	*SJ*
Surrogate: 2,4,6-Tribromophenol			*S*	*Recovery: 16%*	*Limits: 43-140*	*09/03/14 19:28*	*B4H1129*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 86%*	*Limits: 50-134*	*09/03/14 19:28*	*B4H1129*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.66**	0.41		pCi/L		09/09/14 00:00	UL
Radium-228	**0.49**	0.32		pCi/L		09/22/14 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-4
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:20
Matrix: Groundwater
Lab ID: 14H0660-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**491.6200**	0.000000		No unit	08/26/14 11:20	B4I0159	SDS
Depth to water (feet below land surface)	**6.380000**	0.000000		No unit	08/26/14 11:20	B4I0159	SDS
Depth to water (feet from measuring point)	**11.68000**	0.000000		No unit	08/26/14 11:20	B4I0159	SDS
Elevation of groundwater surface (Feet)	**542.9200**	0.000000		No unit	08/26/14 11:20	B4I0159	SDS
Method: SM2510B							
Specific Conductance	**1230**	0.00		uS/cm	08/26/14 11:20	B4I0159	SDS
Method: SM2550-B							
Temperature	**69.2**	1.00		°F	08/26/14 11:20	B4I0159	SDS
Method: SM4500-H							
pH	**7.10**	0.05		pH Units	08/26/14 11:20	B4I0159	SDS
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Arsenic	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Barium	**0.346**	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Beryllium	< 0.00312	0.00312		mg/L	09/03/14 13:05	B4H1273	AG
Boron	**0.106**	0.0156	B	mg/L	09/03/14 13:05	B4H1273	AG
Cadmium	< 0.00312	0.00312		mg/L	09/03/14 13:05	B4H1273	AG
Chromium	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Cobalt	< 0.0156	0.0156		mg/L	09/03/14 13:05	B4H1273	AG
Copper	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Iron	**11.6**	0.625		mg/L	09/03/14 13:05	B4H1273	AG
Lead	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Manganese	**0.154**	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Nickel	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Selenium	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Silver	< 0.00312	0.00312		mg/L	09/03/14 13:05	B4H1273	AG
Thallium	< 0.0312	0.0312		mg/L	09/03/14 13:05	B4H1273	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	09/03/14 14:43	B4I0112	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**11.3**	2.00		mg/L	08/30/14 12:26	B4I0059	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-4
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:20
Matrix: Groundwater
Lab ID: 14H0660-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	08/30/14 12:26	B4I0059	wcicu
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/30/14 12:26	B4I0059	wcicu
Sulfate	< 5.00	5.00		mg/L	08/30/14 12:26	B4I0059	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	09/02/14 11:39	B4I0014	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**554**	10.0		mg/L	08/29/14 07:50	B4H1206	TB2
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	08/29/14 13:38	B4H1225	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.333	0.333		ug/L	09/08/14 18:31	B4I0027	LP
Atrazine	< 0.333	0.333		ug/L	09/08/14 18:31	B4I0027	LP
Chlordane	< 0.333	0.333		ug/L	09/08/14 18:31	B4I0027	LP
Endrin	< 0.200	0.200		ug/L	09/08/14 18:31	B4I0027	LP
Lindane	< 0.200	0.200		ug/L	09/08/14 18:31	B4I0027	LP
Heptachlor	< 0.200	0.200		ug/L	09/08/14 18:31	B4I0027	LP
Heptachlor epoxide	< 0.200	0.200		ug/L	09/08/14 18:31	B4I0027	LP
Methoxychlor	< 0.200	0.200		ug/L	09/08/14 18:31	B4I0027	LP
Simazine	< 0.333	0.333		ug/L	09/08/14 18:31	B4I0027	LP
Toxaphene	< 0.999	0.999		ug/L	09/08/14 18:31	B4I0027	LP
Surrogate: Decachlorobiphenyl				*Recovery: 76%*	*Limits: 30-135*	*09/08/14 18:31*	*B4I0027*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 35%*	*Limits: 44-124*	*09/08/14 18:31*	*B4I0027*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.167	0.167		ug/L	08/28/14 19:39	B4H1101	NCH
Aroclor 1221	< 0.266	0.266		ug/L	08/28/14 19:39	B4H1101	NCH
Aroclor 1232	< 0.333	0.333		ug/L	08/28/14 19:39	B4H1101	NCH
Aroclor 1242	< 0.333	0.333		ug/L	08/28/14 19:39	B4H1101	NCH
Aroclor 1248	< 0.333	0.333		ug/L	08/28/14 19:39	B4H1101	NCH
Aroclor 1254	< 0.266	0.266		ug/L	08/28/14 19:39	B4H1101	NCH
Aroclor 1260	< 0.167	0.167		ug/L	08/28/14 19:39	B4H1101	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 70%*	*Limits: 40-135*	*08/28/14 19:39*	*B4H1101*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 31%*	*Limits: 13-133*	*08/28/14 19:39*	*B4H1101*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-4
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:20
Matrix: Groundwater
Lab ID: 14H0660-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		09/09/14 16:06	B4I0344	EMT
Carbofuran	< 2.00	2.00		ug/L		09/09/14 16:06	B4I0344	EMT
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.989	0.989		ug/L		09/09/14 16:59	B4I0026	MNN
2,4-D	< 0.989	0.989		ug/L		09/09/14 16:59	B4I0026	MNN
Dinoseb	< 0.989	0.989		ug/L		09/09/14 16:59	B4I0026	MNN
Picloram	< 0.989	0.989		ug/L		09/09/14 16:59	B4I0026	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 84%*	*Limits: 20-138*	*09/09/14 16:59*	*B4I0026*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Benzene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		08/28/14 04:44	B4I0343	JL
Chlorobenzene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 04:44	B4I0343	JL
Ethylbenzene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Dichloromethane	**3.91**	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Styrene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Tetrachloroethene	< 4.00	4.00		ug/L		08/28/14 04:44	B4I0343	JL
Toluene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 04:44	B4I0343	JL
Trichloroethene	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Vinyl chloride	< 2.00	2.00		ug/L		08/28/14 04:44	B4I0343	JL
Xylenes, Total	< 8.00	8.00		ug/L		08/28/14 04:44	B4I0343	JL
Surrogate: Dibromofluoromethane			*S*	*Recovery: 146%*	*Limits: 80-119*	*08/28/14 04:44*	*B4I0343*	*JL*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 125%*	*Limits: 81-118*	*08/28/14 04:44*	*B4I0343*	*JL*
Surrogate: Fluorobenzene				*Recovery: 88%*	*Limits: 80-116*	*08/28/14 04:44*	*B4I0343*	*JL*
Surrogate: Toluene-d8			*S*	*Recovery: 75%*	*Limits: 89-112*	*08/28/14 04:44*	*B4I0343*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 109%*	*Limits: 85-114*	*08/28/14 04:44*	*B4I0343*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 120%*	*Limits: 70-120*	*08/28/14 04:44*	*B4I0343*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-4
Report Date: 10/01/2014
Collection Date: 08/26/2014 11:20
Matrix: Groundwater
Lab ID: 14H0660-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		09/02/14 22:47	B4I0379	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		09/02/14 22:47	B4I0379	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		09/03/14 12:24	B4I0265	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 82%*	*Limits: 70-130*	*09/03/14 12:24*	*B4I0265*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		09/11/14 06:43	B4I0009	RYL
Surrogate: 2,4,6-Tribromophenol				*Recovery: 120%*	*Limits: 20-200*	*09/11/14 06:43*	*B4I0009*	*RYL*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.661	0.661		ug/L		09/03/14 20:09	B4H1129	SJ
o-Dichlorobenzene	< 0.661	0.661		ug/L		09/03/14 20:09	B4H1129	SJ
p-Dichlorobenzene	< 0.661	0.661		ug/L		09/03/14 20:09	B4H1129	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		09/03/14 20:09	B4H1129	SJ
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		09/03/14 20:09	B4H1129	SJ
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		09/03/14 20:09	B4H1129	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		09/03/14 20:09	B4H1129	SJ
Surrogate: 2-Fluorophenol				*Recovery: 26%*	*Limits: 19-119*	*09/03/14 20:09*	*B4H1129*	*SJ*
Surrogate: Phenol-d5				*Recovery: 16%*	*Limits: 10-115*	*09/03/14 20:09*	*B4H1129*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 66%*	*Limits: 44-120*	*09/03/14 20:09*	*B4H1129*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 69%*	*Limits: 44-119*	*09/03/14 20:09*	*B4H1129*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 43-140*	*09/03/14 20:09*	*B4H1129*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 103%*	*Limits: 50-134*	*09/03/14 20:09*	*B4H1129*	*SJ*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**1.8**	0.5		pCi/L		09/09/14 00:00	UL
Radium-228	**0.42**	0.36		pCi/L		09/22/14 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-5
Report Date: 10/01/2014
Collection Date: 08/26/2014 08:45
Matrix: Groundwater
Lab ID: 14H0660-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Field and Non-Analytical Data							
Bottom of well elevation (Feet)	**552.5100**	0.000000		No unit	08/26/14 08:45	B4I0159	FO1
Depth to water (feet below land surface)	**14.29000**	0.000000		No unit	08/26/14 08:45	B4I0159	FO1
Depth to water (feet from measuring point)	**16.59000**	0.000000		No unit	08/26/14 08:45	B4I0159	FO1
Elevation of groundwater surface (Feet)	**567.3100**	0.000000		No unit	08/26/14 08:45	B4I0159	FO1
Method: SM2510B							
Specific Conductance	**526**	0.00		uS/cm	08/26/14 08:45	B4I0159	FO1
Method: SM2550-B							
Temperature	**58.2**	1.00		°F	08/26/14 08:45	B4I0159	FO1
Method: SM4500-H							
pH	**7.31**	0.05		pH Units	08/26/14 08:45	B4I0159	FO1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Arsenic	**0.0662**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Barium	**0.663**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Beryllium	**0.00735**	0.00312		mg/L	09/03/14 13:10	B4H1273	AG
Boron	**0.0936**	0.0156	B	mg/L	09/03/14 13:10	B4H1273	AG
Cadmium	**0.00525**	0.00312		mg/L	09/03/14 13:10	B4H1273	AG
Chromium	**0.174**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Cobalt	**0.110**	0.0156		mg/L	09/03/14 13:10	B4H1273	AG
Copper	**0.158**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Iron	**264**	0.625		mg/L	09/03/14 13:10	B4H1273	AG
Lead	**0.0930**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Manganese	**4.96**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Nickel	**0.271**	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Selenium	< 0.0312	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Silver	< 0.00312	0.00312		mg/L	09/03/14 13:10	B4H1273	AG
Thallium	< 0.0312	0.0312		mg/L	09/03/14 13:10	B4H1273	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.000500	0.000500		mg/L	09/03/14 14:45	B4I0112	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**4.20**	2.00		mg/L	08/30/14 13:06	B4I0059	wcicu

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-5
Report Date: 10/01/2014
Collection Date: 08/26/2014 08:45
Matrix: Groundwater
Lab ID: 14H0660-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	08/30/14 13:06	B4I0059	wcicu
Nitrogen, Nitrate	**1.17**	0.500		mg/L	08/30/14 13:06	B4I0059	wcicu
Sulfate	**56.2**	5.00		mg/L	08/30/14 13:06	B4I0059	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	09/02/14 11:39	B4I0014	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**390**	10.0		mg/L	08/29/14 07:50	B4H1206	TB2
Method: SW9010Bby Aquachem / SW9010B							
Cyanide	< 0.0100	0.0100		mg/L	08/29/14 13:38	B4H1225	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.331	0.331		ug/L	09/08/14 19:18	B4I0027	LP
Atrazine	< 0.331	0.331		ug/L	09/08/14 19:18	B4I0027	LP
Chlordane	< 0.331	0.331		ug/L	09/08/14 19:18	B4I0027	LP
Endrin	< 0.198	0.198		ug/L	09/08/14 19:18	B4I0027	LP
Lindane	< 0.198	0.198		ug/L	09/08/14 19:18	B4I0027	LP
Heptachlor	< 0.198	0.198		ug/L	09/08/14 19:18	B4I0027	LP
Heptachlor epoxide	< 0.198	0.198		ug/L	09/08/14 19:18	B4I0027	LP
Methoxychlor	< 0.198	0.198		ug/L	09/08/14 19:18	B4I0027	LP
Simazine	< 0.331	0.331		ug/L	09/08/14 19:18	B4I0027	LP
Toxaphene	< 0.992	0.992		ug/L	09/08/14 19:18	B4I0027	LP
Surrogate: Decachlorobiphenyl				*Recovery: 74%*	*Limits: 30-135*	*09/08/14 19:18*	*B4I0027*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 40%*	*Limits: 44-124*	*09/08/14 19:18*	*B4I0027*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.165	0.165		ug/L	08/28/14 20:08	B4H1101	NCH
Aroclor 1221	< 0.265	0.265		ug/L	08/28/14 20:08	B4H1101	NCH
Aroclor 1232	< 0.331	0.331		ug/L	08/28/14 20:08	B4H1101	NCH
Aroclor 1242	< 0.331	0.331		ug/L	08/28/14 20:08	B4H1101	NCH
Aroclor 1248	< 0.331	0.331		ug/L	08/28/14 20:08	B4H1101	NCH
Aroclor 1254	< 0.265	0.265		ug/L	08/28/14 20:08	B4H1101	NCH
Aroclor 1260	< 0.165	0.165		ug/L	08/28/14 20:08	B4H1101	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 40-135*	*08/28/14 20:08*	*B4H1101*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 45%*	*Limits: 13-133*	*08/28/14 20:08*	*B4H1101*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-5
Report Date: 10/01/2014
Collection Date: 08/26/2014 08:45
Matrix: Groundwater
Lab ID: 14H0660-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		09/09/14 16:44	B4I0344	EMT
Carbofuran	< 2.00	2.00		ug/L		09/09/14 16:44	B4I0344	EMT
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.999	0.999		ug/L		09/09/14 17:41	B4I0026	MNN
2,4-D	< 0.999	0.999		ug/L		09/09/14 17:41	B4I0026	MNN
Dinoseb	< 0.999	0.999		ug/L		09/09/14 17:41	B4I0026	MNN
Picloram	< 0.999	0.999		ug/L		09/09/14 17:41	B4I0026	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 90%*	*Limits: 20-138*	*09/09/14 17:41*	*B4I0026*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Benzene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		08/28/14 05:17	B4I0343	JL
Chlorobenzene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 05:17	B4I0343	JL
Ethylbenzene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Dichloromethane	**4.21**	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Styrene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Tetrachloroethene	< 4.00	4.00		ug/L		08/28/14 05:17	B4I0343	JL
Toluene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/28/14 05:17	B4I0343	JL
Trichloroethene	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Vinyl chloride	< 2.00	2.00		ug/L		08/28/14 05:17	B4I0343	JL
Xylenes, Total	< 8.00	8.00		ug/L		08/28/14 05:17	B4I0343	JL
Surrogate: Dibromofluoromethane			*S*	*Recovery: 147%*	*Limits: 80-119*	*08/28/14 05:17*	*B4I0343*	*JL*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 126%*	*Limits: 81-118*	*08/28/14 05:17*	*B4I0343*	*JL*
Surrogate: Fluorobenzene				*Recovery: 84%*	*Limits: 80-116*	*08/28/14 05:17*	*B4I0343*	*JL*
Surrogate: Toluene-d8			*S*	*Recovery: 75%*	*Limits: 89-112*	*08/28/14 05:17*	*B4I0343*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 108%*	*Limits: 85-114*	*08/28/14 05:17*	*B4I0343*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 117%*	*Limits: 70-120*	*08/28/14 05:17*	*B4I0343*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Client Sample ID: AP-5
Report Date: 10/01/2014
Collection Date: 08/26/2014 08:45
Matrix: Groundwater
Lab ID: 14H0660-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		09/02/14 23:18	B4I0379	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		09/02/14 23:18	B4I0379	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		09/03/14 13:07	B4I0265	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 89%*	*Limits: 70-130*	*09/03/14 13:07*	*B4I0265*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		09/11/14 13:19	B4I0009	RYL
Surrogate: 2,4,6-Tribromophenol				*Recovery: 106%*	*Limits: 20-200*	*09/11/14 13:19*	*B4I0009*	*RYL*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.659	0.659		ug/L		09/03/14 20:51	B4H1129	SJ
o-Dichlorobenzene	< 0.659	0.659		ug/L		09/03/14 20:51	B4H1129	SJ
p-Dichlorobenzene	< 0.659	0.659		ug/L		09/03/14 20:51	B4H1129	SJ
Benzo(a)pyrene	< 1.32	1.32		ug/L		09/03/14 20:51	B4H1129	SJ
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		09/03/14 20:51	B4H1129	SJ
Hexachlorocyclopentadiene	< 3.29	3.29		ug/L		09/03/14 20:51	B4H1129	SJ
Pentachlorophenol	< 13.2	13.2		ug/L		09/03/14 20:51	B4H1129	SJ
Surrogate: 2-Fluorophenol			*S*	*Recovery: 16%*	*Limits: 19-119*	*09/03/14 20:51*	*B4H1129*	*SJ*
Surrogate: Phenol-d5			*S*	*Recovery: 9%*	*Limits: 10-115*	*09/03/14 20:51*	*B4H1129*	*SJ*
Surrogate: Nitrobenzene-d5			*S*	*Recovery: 43%*	*Limits: 44-120*	*09/03/14 20:51*	*B4H1129*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 46%*	*Limits: 44-119*	*09/03/14 20:51*	*B4H1129*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 52%*	*Limits: 43-140*	*09/03/14 20:51*	*B4H1129*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 111%*	*Limits: 50-134*	*09/03/14 20:51*	*B4H1129*	*SJ*

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Dates Report

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Date: 10/01/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14H0660-01	AW-3	08/26/2014 13 20	Groundwater	Subcontracted Analyses		09/04/2014 00:00	09/22/2014 00 00	'[none]'
				Subcontracted Analyses		09/04/2014 00:00	09/09/2014 00 00	
				Polychlorinated Biphenyls by GC/ECD		08/27/2014 11:30	08/28/2014 17:14	B4H1101
				Semivolatile Organic Compounds by GC/MS		08/28/2014 07:00	09/03/2014 17 24	B4H1129
				Solids, Total Dissolved (TDS)		08/29/2014 07:50	08/29/2014 07 50	B4H1206
				Cyanide, Total		08/29/2014 10:10	08/29/2014 13 38	B4H1225
				Chromium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	B4H1228
				Copper, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Iron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Manganese, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Nickel, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Antimony, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Beryllium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Selenium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Thallium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Lead, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Cadmium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Barium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Boron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Arsenic, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Silver, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				Cobalt, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 38	
				EPA 548.1 Endothall		09/01/2014 08:00	09/11/2014 05:16	B4I0009
				Phenols, Total		09/02/2014 08:41	09/02/2014 11 39	B4I0014
				Herbicides by HPLC		09/01/2014 10:00	09/09/2014 14:11	B4I0026
				Organochlorine Pesticides by GC/ECD		08/27/2014 17:30	09/08/2014 15:16	B4I0027
				Fluoride, Anions by Ion Chromatography		08/28/2014 08:51	08/29/2014 20 31	B4I0059
				Chloride, Anions by Ion Chromatography		08/28/2014 08:51	08/29/2014 20 31	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/28/2014 08:51	08/29/2014 20 31	
				Sulfate (SO4), Anions by Ion Chromatography		08/28/2014 08:51	08/29/2014 20 31	
				Mercury, Total CCVA		09/03/2014 09:00	09/03/2014 14 35	B4I0112
				pH, Tested On Site		08/26/2014 13:20	08/26/2014 13 20	B4I0159
				Temperature in F, Field		08/26/2014 13:20	08/26/2014 13 20	
				Conductance, Field		08/26/2014 13:20	08/26/2014 13 20	
				EPA 552.1 Dalapon		09/02/2014 08:00	09/02/2014 19 22	B4I0265
				Volatile Organic Compounds by GC/MS		08/27/2014 10:52	08/28/2014 02 33	B4I0343
				EPA 531.1 Carbamates		09/09/2014 11:30	09/09/2014 13 35	B4I0344
				EPA 504.1 DBCP/EDB		09/02/2014 11:49	09/02/2014 20:42	B4I0379
14H0660-02	AP-1	08/26/2014 12:10		Subcontracted Analyses		09/04/2014 00:00	09/09/2014 00 00	'[none]'
				Subcontracted Analyses		09/04/2014 00:00	09/22/2014 00 00	
				Polychlorinated Biphenyls by GC/ECD		08/27/2014 11:30	08/28/2014 17:43	B4H1101
				Semivolatile Organic Compounds by GC/MS		08/28/2014 07:00	09/03/2014 18 06	B4H1129
				Solids, Total Dissolved (TDS)		08/29/2014 07:50	08/29/2014 07 50	B4H1206
				Cyanide, Total		08/29/2014 10:10	08/29/2014 13 38	B4H1225
				Arsenic, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	B4H1228
				Chromium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Thallium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Selenium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	

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Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Date: 10/01/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14H0660-02	AP-1	08/26/2014 12:10	Groundwater	Antimony, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	B4H1228
				Lead, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Nickel, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Manganese, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Iron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Copper, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Cobalt, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Cadmium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Beryllium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Boron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Silver, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				Barium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:40	
				EPA 548.1 Endothall		09/01/2014 08:00	09/11/2014 01:40	B4I0009
				Phenols, Total		09/02/2014 08:41	09/02/2014 11 39	B4I0014
				Herbicides by HPLC		09/01/2014 10:00	09/09/2014 14 53	B4I0026
				Organochlorine Pesticides by GC/ECD		08/27/2014 17:30	09/08/2014 16 03	B4I0027
				Chloride, Anions by Ion Chromatography		08/28/2014 08:51	08/29/2014 22 31	B4I0059
				Fluoride, Anions by Ion Chromatography		08/28/2014 08:51	08/29/2014 22 31	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/28/2014 08:51	08/29/2014 22 31	
				Mercury, Total CCVA		09/03/2014 09:00	09/03/2014 14 37	B4I0112
				Groundwater Parameters		08/26/2014 12:10	08/26/2014 12:10	B4I0159
				pH, Tested On Site		08/26/2014 12:10	08/26/2014 12:10	
				Conductance, Field		08/26/2014 12:10	08/26/2014 12:10	
				Temperature in F, Field		08/26/2014 12:10	08/26/2014 12:10	
				EPA 552.1 Dalapon		09/02/2014 08:00	09/02/2014 20:47	B4I0265
				Volatile Organic Compounds by GC/MS		08/27/2014 10:52	08/28/2014 03 06	B4I0343
				EPA 531.1 Carbamates		09/09/2014 11:30	09/09/2014 14:11	B4I0344
				EPA 504.1 DBCP/EDB		09/02/2014 11:49	09/02/2014 21:13	B4I0379
				Sulfate (SO4), Anions by Ion Chromatography		09/12/2014 09:20	09/12/2014 13 24	B4I0542
14H0660-03	AP-2	08/26/2014 11:45		Subcontracted Analyses		09/04/2014 00:00	09/09/2014 00 00	'[none]'
				Subcontracted Analyses		09/04/2014 00:00	09/22/2014 00 00	
				Polychlorinated Biphenyls by GC/ECD		08/27/2014 11:30	08/28/2014 18:12	B4H1101
				Semivolatile Organic Compounds by GC/MS		08/28/2014 07:00	09/03/2014 18:47	B4H1129
				Solids, Total Dissolved (TDS)		08/29/2014 07:50	08/29/2014 07 50	B4H1206
				Cyanide, Total		08/29/2014 10:10	08/29/2014 13 38	B4H1225
				Copper, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	B4H1228
				Thallium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Selenium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Antimony, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Lead, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Nickel, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Iron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Boron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Silver, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Manganese, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Arsenic, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Chromium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Barium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Beryllium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	
				Cadmium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	

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Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Date: 10/01/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14H0660-03	AP-2	08/26/2014 11:45	Groundwater	Cobalt, Total ICP-MS		08/29/2014 09:30	09/03/2014 12:49	B4H1228
				EPA 548.1 Endothall		09/01/2014 08:00	09/11/2014 05 59	B4I0009
				Phenols, Total		09/02/2014 08:41	09/02/2014 11 39	B4I0014
				Herbicides by HPLC		09/01/2014 10:00	09/09/2014 15 35	B4I0026
				Organochlorine Pesticides by GC/ECD		08/27/2014 17:30	09/08/2014 16 58	B4I0027
				Fluoride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 07 08	B4I0059
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/28/2014 08:51	08/30/2014 07 08	
				Chloride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 07 08	
				Mercury, Total CCVA		09/03/2014 09:00	09/03/2014 14 39	B4I0112
				Groundwater Parameters		08/26/2014 11:45	08/26/2014 11:45	B4I0159
				Conductance, Field		08/26/2014 11:45	08/26/2014 11:45	
				Temperature in F, Field		08/26/2014 11:45	08/26/2014 11:45	
				pH, Tested On Site		08/26/2014 11:45	08/26/2014 11:45	
				EPA 552.1 Dalapon		09/02/2014 08:00	09/02/2014 21 30	B4I0265
				Volatile Organic Compounds by GC/MS		08/27/2014 10:52	08/28/2014 03 39	B4I0343
				EPA 531.1 Carbamates		09/09/2014 11:30	09/09/2014 14:47	B4I0344
				EPA 504.1 DBCP/EDB		09/02/2014 11:49	09/02/2014 21:44	B4I0379
				Sulfate (SO4), Anions by Ion Chromatography		09/12/2014 09:20	09/12/2014 14 04	B4I0542
14H0660-04	AP-3	08/26/2014 11:10		Subcontracted Analyses		09/04/2014 00:00	09/09/2014 00 00	'[none]'
				Subcontracted Analyses		09/04/2014 00:00	09/22/2014 00 00	
				Polychlorinated Biphenyls by GC/ECD		08/27/2014 11:30	08/28/2014 18:41	B4H1101
				Semivolatile Organic Compounds by GC/MS		08/28/2014 07:00	09/03/2014 19 28	B4H1129
				Solids, Total Dissolved (TDS)		08/29/2014 07:50	08/29/2014 07 50	B4H1206
				Cyanide, Total		08/29/2014 10:10	08/29/2014 13 38	B4H1225
				Iron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	B4H1228
				Thallium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Selenium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Antimony, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Lead, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Manganese, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Copper, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Cobalt, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Nickel, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Cadmium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Beryllium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Barium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Boron, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Arsenic, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Chromium, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				Silver, Total ICP-MS		08/29/2014 09:30	09/03/2014 12 51	
				EPA 548.1 Endothall		09/01/2014 08:00	09/11/2014 09 20	B4I0009
				Phenols, Total		09/02/2014 08:41	09/02/2014 11 39	B4I0014
				Herbicides by HPLC		09/01/2014 10:00	09/09/2014 16:17	B4I0026
				Organochlorine Pesticides by GC/ECD		08/27/2014 17:30	09/08/2014 17:45	B4I0027
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/28/2014 08:51	08/30/2014 07:48	B4I0059
				Fluoride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 07:48	
				Chloride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 07:48	

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Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Date: 10/01/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14H0660-04	AP-3	08/26/2014 11:10	Groundwater	Mercury, Total CCVA		09/03/2014 09:00	09/03/2014 14:41	B4I0112
				pH, Tested On Site		08/26/2014 11:10	08/26/2014 11:10	B4I0159
				Conductance, Field		08/26/2014 11:10	08/26/2014 11:10	
				Temperature in F, Field		08/26/2014 11:10	08/26/2014 11:10	
				Groundwater Parameters		08/26/2014 11:10	08/26/2014 11:10	
				EPA 552.1 Dalapon		09/02/2014 08:00	09/03/2014 11:41	B4I0265
				Volatile Organic Compounds by GC/MS		08/27/2014 10:52	08/28/2014 04:11	B4I0343
				EPA 531.1 Carbamates		09/09/2014 11:30	09/09/2014 15 24	B4I0344
				EPA 504.1 DBCP/EDB		09/02/2014 11:49	09/02/2014 22:16	B4I0379
				Sulfate (SO4), Anions by Ion Chromatography		09/12/2014 09:20	09/12/2014 14:44	B4I0542
14H0660-05	AP-4	08/26/2014 11 20		Subcontracted Analyses		09/04/2014 00:00	09/09/2014 00 00	'[none]'
				Subcontracted Analyses		09/04/2014 00:00	09/22/2014 00 00	
				Polychlorinated Biphenyls by GC/ECD		08/27/2014 11:30	08/28/2014 19 39	B4H1101
				Semivolatile Organic Compounds by GC/MS		08/28/2014 07:00	09/03/2014 20 09	B4H1129
				Solids, Total Dissolved (TDS)		08/29/2014 07:50	08/29/2014 07 50	B4H1206
				Cyanide, Total		08/29/2014 10:10	08/29/2014 13 38	B4H1225
				Chromium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	B4H1273
				Thallium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Selenium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Antimony, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Lead, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Nickel, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Manganese, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Copper, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Cobalt, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Cadmium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Beryllium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Barium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Boron, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Arsenic, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Silver, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				Iron, Total ICP-MS		08/29/2014 15:30	09/03/2014 13 05	
				EPA 548.1 Endothall		09/01/2014 08:00	09/11/2014 06:43	B4I0009
				Phenols, Total		09/02/2014 08:41	09/02/2014 11 39	B4I0014
				Herbicides by HPLC		09/01/2014 10:00	09/09/2014 16 59	B4I0026
				Organochlorine Pesticides by GC/ECD		08/27/2014 17:30	09/08/2014 18 31	B4I0027
				Fluoride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 12 26	B4I0059
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/28/2014 08:51	08/30/2014 12 26	
				Chloride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 12 26	
				Sulfate (SO4), Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 12 26	
				Mercury, Total CCVA		09/03/2014 09:00	09/03/2014 14:43	B4I0112
				pH, Tested On Site		08/26/2014 11:20	08/26/2014 11 20	B4I0159
				Temperature in F, Field		08/26/2014 11:20	08/26/2014 11 20	
				Conductance, Field		08/26/2014 11:20	08/26/2014 11 20	
				Groundwater Parameters		08/26/2014 11:20	08/26/2014 11 20	
				EPA 552.1 Dalapon		09/02/2014 08:00	09/03/2014 12 24	B4I0265
				Volatile Organic Compounds by GC/MS		08/27/2014 10:52	08/28/2014 04:44	B4I0343
				EPA 531.1 Carbamates		09/09/2014 11:30	09/09/2014 16 06	B4I0344

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Date: 10/01/2014

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leached Date	Prep Date	Analysis Date	Batch ID
14H0660-05	AP-4	08/26/2014 11 20	Groundwater	EPA 504.1 DBCP/EDB		09/02/2014 11:49	09/02/2014 22:47	B4I0379
14H0660-06	AP-5	08/26/2014 08:45		Polychlorinated Biphenyls by GC/ECD		08/27/2014 11:30	08/28/2014 20 08	B4H1101
				Semivolatile Organic Compounds by GC/MS		08/28/2014 07:00	09/03/2014 20 51	B4H1129
				Solids, Total Dissolved (TDS)		08/29/2014 07:50	08/29/2014 07 50	B4H1206
				Cyanide, Total		08/29/2014 10:10	08/29/2014 13 38	B4H1225
				Manganese, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	B4H1273
				Chromium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Copper, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Iron, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Nickel, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Lead, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Cobalt, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Selenium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Silver, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Thallium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Antimony, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Cadmium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Beryllium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Barium, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Arsenic, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				Boron, Total ICP-MS		08/29/2014 15:30	09/03/2014 13:10	
				EPA 548.1 Endothall		09/01/2014 08:00	09/11/2014 13:19	B4I0009
				Phenols, Total		09/02/2014 08:41	09/02/2014 11 39	B4I0014
				Herbicides by HPLC		09/01/2014 10:00	09/09/2014 17:41	B4I0026
				Organochlorine Pesticides by GC/ECD		08/27/2014 17:30	09/08/2014 19:18	B4I0027
				Chloride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 13 06	B4I0059
				Fluoride, Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 13 06	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/28/2014 08:51	08/30/2014 13 06	
				Sulfate (SO4), Anions by Ion Chromatography		08/28/2014 08:51	08/30/2014 13 06	
				Mercury, Total CCVA		09/03/2014 09:00	09/03/2014 14:45	B4I0112
				pH, Tested On Site		08/26/2014 08:45	08/26/2014 08:45	B4I0159
				Conductance, Field		08/26/2014 08:45	08/26/2014 08:45	
				Groundwater Parameters		08/26/2014 08:45	08/26/2014 08:45	
				Temperature in F, Field		08/26/2014 08:45	08/26/2014 08:45	
				EPA 552.1 Dalapon		09/02/2014 08:00	09/03/2014 13 07	B4I0265
				Volatile Organic Compounds by GC/MS		08/27/2014 10:52	08/28/2014 05:17	B4I0343
				EPA 531.1 Carbamates		09/09/2014 11:30	09/09/2014 16:44	B4I0344
				EPA 504.1 DBCP/EDB		09/02/2014 11:49	09/02/2014 23:18	B4I0379

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Quality Control

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1228 - SW3015										
DL (B4H1228-BLK2)				*Prepared: 08/29/2014 09:30*			*Analyzed: 09/03/2014 12:22*			
Antimony	< 0.0312	0.0312	mg/L							
Arsenic	< 0.0312	0.0312	mg/L							
Barium	< 0.0312	0.0312	mg/L							
Beryllium	< 0.00312	0.00312	mg/L							
Boron	< 0.0156	0.0156	mg/L							
Cadmium	< 0.00312	0.00312	mg/L							
Chromium	< 0.0312	0.0312	mg/L							
Cobalt	< 0.0156	0.0156	mg/L							
Copper	< 0.0312	0.0312	mg/L							
Iron	< 0.625	0.625	mg/L							
Lead	< 0.0312	0.0312	mg/L							
Manganese	< 0.0312	0.0312	mg/L							
Nickel	< 0.0312	0.0312	mg/L							
Selenium	< 0.0312	0.0312	mg/L							
Silver	< 0.00312	0.00312	mg/L							
Thallium	< 0.0312	0.0312	mg/L							
DL (B4H1228-BS3)				*Prepared: 08/29/2014 09:30*			*Analyzed: 09/03/2014 12:24*			
Antimony	1.19	0.0312	mg/L	1.25		95.3	85-117			
Arsenic	1.22	0.0312	mg/L	1.25		98.0	84-116			
Barium	1.21	0.0312	mg/L	1.25		97.1	86-114			
Beryllium	0.122	0.00312	mg/L	0.125		97.4	83-121			
Boron	0.614	0.0156	mg/L	0.625		98.2	73-130			
Cadmium	0.129	0.00312	mg/L	0.125		103	87-115			
Chromium	1.21	0.0312	mg/L	1.25		96.5	85-116			
Cobalt	1.24	0.0156	mg/L	1.25		99.5	86-115			
Copper	1.24	0.0312	mg/L	1.25		99.3	85-118			
Iron	1.24	0.625	mg/L	1.25		99.2	87-118			
Lead	1.22	0.0312	mg/L	1.25		97.6	88-115			
Manganese	1.35	0.0312	mg/L	1.25		108	87-115			
Nickel	1.21	0.0312	mg/L	1.25		96.7	85-117			
Selenium	1.21	0.0312	mg/L	1.25		96.9	80-120			
Silver	0.116	0.00312	mg/L	0.125		92.5	85-116			
Thallium	1.23	0.0312	mg/L	1.25		98.3	82-116			
LCSMS-LOQ (B4H1228-MRL2)				*Prepared: 08/29/2014 09:30*			*Analyzed: 09/03/2014 12:26*			
Antimony	0.0534	0.0312	mg/L	0.0312		171	70-130			S
Arsenic	0.0300	0.0312	mg/L	0.0312		95.9	70-130			
Barium	0.0270	0.0312	mg/L	0.0312		86.4	70-130			
Beryllium	0.00285	0.00312	mg/L	0.00312		91.2	70-130			
Boron	0.0187	0.0156	mg/L	0.0156		120	70-130			
Cadmium	0.00281	0.00312	mg/L	0.00312		90.0	70-130			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1228 - SW3015 *(Continued)*										
LCSMS-LOQ (B4H1228-MRL2) (Continued)				*Prepared: 08/29/2014 09:30*			*Analyzed: 09/03/2014 12:26*			
Chromium	0.0269	0.0312	mg/L	0.0312		86.1	70-130			
Cobalt	0.0124	0.0156	mg/L	0.0125		99.2	70-130			
Copper	0.0296	0.0312	mg/L	0.0312		94.8	70-130			
Iron	0.442	0.625	mg/L	0.0312		NR	70-130			S
Lead	0.0255	0.0312	mg/L	0.0312		81.5	70-130			
Manganese	0.0315	0.0312	mg/L	0.0312		101	70-130			
Nickel	0.0296	0.0312	mg/L	0.0312		94.9	70-130			
Selenium	0.0293	0.0312	mg/L	0.0312		93.6	70-130			
Silver	0.00282	0.00312	mg/L	0.00312		90.2	70-130			
Thallium	0.0265	0.0312	mg/L	0.0312		84.8	70-130			
DL (B4H1228-MS2)		**Source: 14H0660-04**		*Prepared: 08/29/2014 09:30*			*Analyzed: 09/03/2014 12:52*			
Antimony	1.09	0.0312	mg/L	1.25	0.00171	87.2	75-125			
Arsenic	1.21	0.0312	mg/L	1.25	0.0138	95.7	75-125			
Barium	1.18	0.0312	mg/L	1.25	0.0979	86.8	75-125			
Beryllium	0.121	0.00312	mg/L	0.125	ND	96.6	75-125			
Boron	19.2	0.0156	mg/L	0.625	19.2	5.00	75-125			S
Cadmium	0.131	0.00312	mg/L	0.125	0.000769	104	75-125			
Chromium	1.22	0.0312	mg/L	1.25	0.00262	97.0	75-125			
Cobalt	1.24	0.0156	mg/L	1.25	0.00480	98.4	75-125			
Copper	1.19	0.0312	mg/L	1.25	0.00557	94.9	75-125			
Iron	15.4	0.625	mg/L	1.25	14.4	77.3	75-125			
Lead	1.31	0.0312	mg/L	1.25	0.00256	105	75-125			
Manganese	10.1	0.0312	mg/L	1.25	8.94	96.3	75-125			
Nickel	1.19	0.0312	mg/L	1.25	0.00611	94.4	75-125			
Selenium	1.12	0.0312	mg/L	1.25	0.000517	89.5	75-125			
Silver	0.105	0.00312	mg/L	0.125	ND	84.0	75-125			
Thallium	1.29	0.0312	mg/L	1.25	ND	103	75-125			
DL (B4H1228-MSD2)		**Source: 14H0660-04**		*Prepared: 08/29/2014 09:30*			*Analyzed: 09/03/2014 12:54*			
Antimony	1.18	0.0312	mg/L	1.25	0.00171	94.2	75-125	7.68	20	
Arsenic	1.24	0.0312	mg/L	1.25	0.0138	98.3	75-125	2.61	20	
Barium	1.12	0.0312	mg/L	1.25	0.0979	81.5	75-125	5.81	20	
Beryllium	0.124	0.00312	mg/L	0.125	ND	99.4	75-125	2.93	20	
Boron	19.6	0.0156	mg/L	0.625	19.2	72.5	75-125	2.17	20	S
Cadmium	0.133	0.00312	mg/L	0.125	0.000769	106	75-125	1.58	20	
Chromium	1.24	0.0312	mg/L	1.25	0.00262	98.8	75-125	1.81	20	
Cobalt	1.24	0.0156	mg/L	1.25	0.00480	98.9	75-125	0.489	20	
Copper	1.21	0.0312	mg/L	1.25	0.00557	96.0	75-125	1.16	20	
Iron	15.0	0.625	mg/L	1.25	14.4	47.7	75-125	2.43	20	S
Lead	1.32	0.0312	mg/L	1.25	0.00256	105	75-125	0.0932	20	
Manganese	10.2	0.0312	mg/L	1.25	8.94	103	75-125	0.810	20	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1228 - SW3015 *(Continued)*										
DL (B4H1228-MSD2) (Continued)		**Source: 14H0660-04**		*Prepared: 08/29/2014 09:30*		*Analyzed: 09/03/2014 12:54*				
Nickel	1.21	0.0312	mg/L	1.25	0.00611	96.0	75-125	1.67	20	
Selenium	1.18	0.0312	mg/L	1.25	0.000517	94.6	75-125	5.51	20	
Silver	0.0909	0.00312	mg/L	0.125	ND	72.7	75-125	14.5	20	S
Thallium	1.28	0.0312	mg/L	1.25	ND	102	75-125	0.377	20	
Batch: B4H1273 - SW3015										
DL (B4H1273-BLK2)				*Prepared: 08/29/2014 15:30*		*Analyzed: 09/03/2014 13:00*				
Antimony	< 0.0312	0.0312	mg/L							
Arsenic	< 0.0312	0.0312	mg/L							
Barium	< 0.0312	0.0312	mg/L							
Beryllium	< 0.00312	0.00312	mg/L							
Boron	0.0701	0.0156	mg/L							
Cadmium	< 0.00312	0.00312	mg/L							
Chromium	< 0.0312	0.0312	mg/L							
Cobalt	< 0.0156	0.0156	mg/L							
Copper	< 0.0312	0.0312	mg/L							
Iron	< 0.625	0.625	mg/L							
Lead	< 0.0312	0.0312	mg/L							
Manganese	< 0.0312	0.0312	mg/L							
Nickel	< 0.0312	0.0312	mg/L							
Selenium	< 0.0312	0.0312	mg/L							
Silver	< 0.00312	0.00312	mg/L							
Thallium	< 0.0312	0.0312	mg/L							
DL (B4H1273-BS2)				*Prepared: 08/29/2014 15:30*		*Analyzed: 09/03/2014 13:01*				
Antimony	1.16	0.0312	mg/L	1.25		93.2	85-117			
Arsenic	1.17	0.0312	mg/L	1.25		93.3	84-116			
Barium	1.20	0.0312	mg/L	1.25		96.2	86-114			
Beryllium	0.122	0.00312	mg/L	0.125		97.6	83-121			
Boron	0.661	0.0156	mg/L	0.625		106	73-130			B
Cadmium	0.130	0.00312	mg/L	0.125		104	87-115			
Chromium	1.22	0.0312	mg/L	1.25		97.6	85-116			
Cobalt	1.26	0.0156	mg/L	1.25		101	86-115			
Copper	1.24	0.0312	mg/L	1.25		99.5	85-118			
Iron	1.26	0.625	mg/L	1.25		101	87-118			
Lead	1.29	0.0312	mg/L	1.25		103	88-115			
Manganese	1.39	0.0312	mg/L	1.25		111	87-115			
Nickel	1.22	0.0312	mg/L	1.25		97.3	85-117			
Selenium	1.16	0.0312	mg/L	1.25		92.4	80-120			
Silver	0.117	0.00312	mg/L	0.125		93.7	85-116			
Thallium	1.24	0.0312	mg/L	1.25		98.9	82-116			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1273 - SW3015 *(Continued)*										
DL (B4H1273-BS2) (Continued)				*Prepared: 08/29/2014 15:30*			*Analyzed: 09/03/2014 13:01*			
LCSMS-LOQ (B4H1273-MRL2)				*Prepared: 08/29/2014 15:30*			*Analyzed: 09/03/2014 13:03*			
Antimony	0.0507	0.0312	mg/L	0.0312		162	70-130			S
Arsenic	0.0328	0.0312	mg/L	0.0312		105	70-130			
Barium	0.0293	0.0312	mg/L	0.0312		93.8	70-130			
Beryllium	0.00311	0.00312	mg/L	0.00312		99.5	70-130			
Boron	0.0519	0.0156	mg/L	0.0156		332	70-130			S, B
Cadmium	0.00337	0.00312	mg/L	0.00312		108	70-130			
Chromium	0.0276	0.0312	mg/L	0.0312		88.3	70-130			
Cobalt	0.0116	0.0156	mg/L	0.0125		92.7	70-130			
Copper	0.0296	0.0312	mg/L	0.0312		94.7	70-130			
Iron	0.0233	0.625	mg/L	0.0312		74.4	70-130			
Lead	0.0324	0.0312	mg/L	0.0312		104	70-130			
Manganese	0.0313	0.0312	mg/L	0.0312		100	70-130			
Nickel	0.0293	0.0312	mg/L	0.0312		93.6	70-130			
Selenium	0.0343	0.0312	mg/L	0.0312		110	70-130			
Silver	0.00308	0.00312	mg/L	0.00312		98.4	70-130			
Thallium	0.0291	0.0312	mg/L	0.0312		93.0	70-130			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0112										
Blank (B4I0112-BLK1)				*Prepared: 09/03/2014 09:00*			*Analyzed: 09/03/2014 13:30*			
Mercury	< 0.000250	0.000250	mg/L							
LCS (B4I0112-BS1)				*Prepared: 09/03/2014 09:00*			*Analyzed: 09/03/2014 13:32*			
Mercury	0.00498	0.000250	mg/L	0.00500		99.6	82-119			
MRL Check (B4I0112-MRL1)				*Prepared: 09/03/2014 09:00*			*Analyzed: 09/03/2014 13:09*			
Mercury	0.000226	0.000250	mg/L	0.000250		90.6	70-130			
Matrix Spike (B4I0112-MS2)		**Source: 14H0520-01**		*Prepared: 09/03/2014 09:00*			*Analyzed: 09/03/2014 17:14*			
Mercury	0.00411	0.000500	mg/L	0.00400	ND	103	75-125			
Matrix Spike Dup (B4I0112-MSD2)		**Source: 14H0520-01**		*Prepared: 09/03/2014 09:00*			*Analyzed: 09/03/2014 13:38*			
Mercury	0.00399	0.000500	mg/L	0.00400	ND	99.6	75-125	3.11	20	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0059										
Blank (B4I0059-BLK1)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/28/2014 09:22*			
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS LR (B4I0059-BS1)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/28/2014 12:01*			
Chloride	0.217		mg/L	0.200		109	87-111			
Fluoride	0.194		mg/L	0.200		96.8	88-112			
Nitrogen, Nitrate	0.0931		mg/L	0.0904		103	88-111			
Sulfate	0.419		mg/L	0.400		105	87-112			
LCS HR (B4I0059-BS2)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/28/2014 10:42*			
Chloride	4.97		mg/L	5.00		99.4	87-111			
Fluoride	5.00		mg/L	5.00		99.9	88-112			
Nitrogen, Nitrate	2.15		mg/L	2.26		95.3	88-111			
Sulfate	9.65		mg/L	10.0		96.5	87-112			
LCS LR (B4I0059-BS3)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/29/2014 09:55*			
Chloride	0.221		mg/L	0.200		111	87-111			
Fluoride	0.196		mg/L	0.200		97.8	88-112			
Nitrogen, Nitrate	0.0952		mg/L	0.0904		105	88-111			
Sulfate	0.442		mg/L	0.400		111	87-112			
LCS HR (B4I0059-BS4)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/29/2014 10:34*			
Chloride	4.97		mg/L	5.00		99.4	87-111			
Fluoride	5.00		mg/L	5.00		100	88-112			
Nitrogen, Nitrate	2.14		mg/L	2.26		94.7	88-111			
Sulfate	9.62		mg/L	10.0		96.2	87-112			
LCS LR (B4I0059-BS5)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/30/2014 11:07*			
Chloride	0.226		mg/L	0.200		113	87-111			S
Fluoride	0.201		mg/L	0.200		101	88-112			
Nitrogen, Nitrate	0.0930		mg/L	0.0904		103	88-111			
Sulfate	0.431		mg/L	0.400		108	87-112			
LCS HR (B4I0059-BS6)				*Prepared: 08/28/2014 08:51*			*Analyzed: 08/30/2014 11:47*			
Chloride	4.99		mg/L	5.00		99.7	87-111			
Fluoride	5.05		mg/L	5.00		101	88-112			
Nitrogen, Nitrate	2.14		mg/L	2.26		94.7	88-111			
Sulfate	9.63		mg/L	10.0		96.3	87-112			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Anions by Ion Chromatography
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0059 *(Continued)*										
Matrix Spike (B4I0059-MS1)		**Source: 14H0659-01**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/29/2014 07:55*			
Chloride	92.1	2.00	mg/L	25.0		369	80-120			
Nitrogen, Nitrate	25.8	0.500	mg/L	25.0	ND	103	80-120			
Matrix Spike (B4I0059-MS2)		**Source: 14H0660-01**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/29/2014 21:11*			
Chloride	47.9	2.00	mg/L	25.0	23.3	98.2	80-120			
Fluoride	27.7	0.500	mg/L	25.0	0.464	109	80-120			
Nitrogen, Nitrate	25.8	0.500	mg/L	25.0	0.0950	103	80-120			
Sulfate	37.3	5.00	mg/L	25.0	11.0	105	80-120			
Matrix Spike (B4I0059-MS3)		**Source: 14G0974-07**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/30/2014 05:48*			
Chloride	121	2.00	mg/L	25.0	93.7	108	80-120			
Nitrogen, Nitrate	25.3	0.500	mg/L	25.0	ND	101	80-120			
Matrix Spike (B4I0059-MS4)		**Source: 14H0920-04**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/30/2014 16:25*			
Chloride	271	2.00	mg/L	25.0	236	141	80-120			
Fluoride	27.9	0.500	mg/L	25.0	1.02	108	80-120			
Sulfate	200	5.00	mg/L	25.0	163	150	80-120			S
Matrix Spike (B4I0059-MS5)		**Source: 14H1013-04**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/31/2014 05:41*			
Chloride	38.8	2.00	mg/L	25.0	13.8	100	80-120			
Nitrogen, Nitrate	28.5	0.500	mg/L	25.0	3.15	101	80-120			
Matrix Spike Dup (B4I0059-MSD1)		**Source: 14H0659-01**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/29/2014 08:35*			
Chloride	92.1	2.00	mg/L	25.0		369	80-120	0.0119	20	
Nitrogen, Nitrate	25.8	0.500	mg/L	25.0	ND	103	80-120	0.0542	20	
Matrix Spike Dup (B4I0059-MSD2)		**Source: 14H0660-01**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/29/2014 21:51*			
Chloride	47.6	2.00	mg/L	25.0	23.3	97.2	80-120	0.496	20	
Fluoride	27.6	0.500	mg/L	25.0	0.464	109	80-120	0.195	20	
Nitrogen, Nitrate	25.7	0.500	mg/L	25.0	0.0950	102	80-120	0.431	20	
Sulfate	37.0	5.00	mg/L	25.0	11.0	104	80-120	0.942	20	
Matrix Spike Dup (B4I0059-MSD3)		**Source: 14G0974-07**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/30/2014 06:28*			
Chloride	121	2.00	mg/L	25.0	93.7	108	80-120	0.171	20	
Nitrogen, Nitrate	25.2	0.500	mg/L	25.0	ND	101	80-120	0.269	20	
Matrix Spike Dup (B4I0059-MSD4)		**Source: 14H0920-04**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/30/2014 17:05*			
Chloride	271	2.00	mg/L	25.0	236	140	80-120	0.120	20	
Fluoride	27.9	0.500	mg/L	25.0	1.02	107	80-120	0.126	20	
Sulfate	200	5.00	mg/L	25.0	163	149	80-120	0.131	20	S

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Anions by Ion Chromatography
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0059 *(Continued)*										
Matrix Spike Dup (B4I0059-MSD5)		**Source: 14H1013-04**		*Prepared: 08/28/2014 08:51*			*Analyzed: 08/31/2014 06:21*			
Chloride	38.8	2.00	mg/L	25.0	13.8	100	80-120	0.0773	20	
Nitrogen, Nitrate	28.5	0.500	mg/L	25.0	3.15	101	80-120	0.0176	20	
Batch: B4I0542										
Blank (B4I0542-BLK1)				*Prepared: 09/12/2014 09:20*			*Analyzed: 09/12/2014 10:05*			
Sulfate	< 0.500	0.500	mg/L							
LCS LR (B4I0542-BS1)				*Prepared: 09/12/2014 09:20*			*Analyzed: 09/12/2014 10:45*			
Sulfate	0.398		mg/L	0.400		99.4	87-112			
LCS HR (B4I0542-BS2)				*Prepared: 09/12/2014 09:20*			*Analyzed: 09/12/2014 11:25*			
Sulfate	9.32		mg/L	10.0		93.2	87-112			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1206										
Blank (B4H1206-BLK1)				*Prepared: 08/29/2014 07:50*			*Analyzed: 08/29/2014 07:50*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B4H1206-BS1)				*Prepared: 08/29/2014 07:50*			*Analyzed: 08/29/2014 07:50*			
Total Dissolved Solids (Residue, Filterable)	980	10.0	mg/L	965		102	85-115			
Duplicate (B4H1206-DUP1)		**Source: 14H0660-06**		*Prepared: 08/29/2014 07:50*			*Analyzed: 08/29/2014 07:50*			
Total Dissolved Solids (Residue, Filterable)	390	10.0	mg/L		390			0.00	5	
Duplicate (B4H1206-DUP2)		**Source: 14H0918-01**		*Prepared: 08/29/2014 07:50*			*Analyzed: 08/29/2014 07:50*			
Total Dissolved Solids (Residue, Filterable)	1320	10.0	mg/L		1330			1.06	5	
Batch: B4H1225 - SW9010B										
Blank (B4H1225-BLK1)				*Prepared: 08/29/2014 10:10*			*Analyzed: 08/29/2014 13:31*			
Cyanide	< 0.0100	0.0100	mg/L							
LCS HR (B4H1225-BS1)				*Prepared: 08/29/2014 10:10*			*Analyzed: 08/29/2014 13:31*			
Cyanide	0.0511	0.0100	mg/L	0.0500		102	83-116			
LCS LR (B4H1225-BS2)				*Prepared: 08/29/2014 10:10*			*Analyzed: 08/29/2014 14:22*			
Cyanide	0.0124	0.0100	mg/L	0.0100		124	83-116			S
Batch: B4I0014										
Blank (B4I0014-BLK1)				*Prepared: 09/02/2014 08:41*			*Analyzed: 09/02/2014 11:39*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B4I0014-BS1)				*Prepared: 09/02/2014 08:41*			*Analyzed: 09/02/2014 11:39*			
Phenolics, Total Recoverable	0.0521	0.0100	mg/L	0.0500		104	85-115			
Matrix Spike (B4I0014-MS1)		**Source: 14H0660-06**		*Prepared: 09/02/2014 08:41*			*Analyzed: 09/02/2014 11:39*			
Phenolics, Total Recoverable	0.0555	0.0100	mg/L	0.0500	0.00728	96.5	80-120			
Matrix Spike Dup (B4I0014-MSD1)		**Source: 14H0660-06**		*Prepared: 09/02/2014 08:41*			*Analyzed: 09/02/2014 11:39*			
Phenolics, Total Recoverable	0.0577	0.0100	mg/L	0.0500	0.00728	101	80-120	3.76	10	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0027 - SW3510										
Blank (B4I0027-BLK1)				*Prepared: 08/27/2014 11:30 Analyzed: 09/02/2014 20:53*						
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.0879*		*ug/L*	*0.100*		*88*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0771*		*ug/L*	*0.100*		*77*	*44-124*			
DL (B4I0027-BLK3)				*Prepared: 08/27/2014 11:30 Analyzed: 09/06/2014 15:50*						
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.00*		*ug/L*	*0.100*			*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.00*		*ug/L*	*0.100*			*44-124*			
LCS (B4I0027-BS1)				*Prepared: 08/27/2014 11:30 Analyzed: 09/02/2014 21:39*						
Alachlor	< 0.500	0.500	ug/L				19-132			
Atrazine	< 0.500	0.500	ug/L				57-119			
Chlordane	< 0.500	0.500	ug/L				0-200			
Endrin	0.0905	0.300	ug/L	0.100		91	60-138			
Lindane (gamma-BHC)	0.0673	0.300	ug/L	0.100		67	59-134			
Heptachlor	0.0831	0.300	ug/L	0.100		83	54-130			
Heptachlor epoxide	0.0769	0.300	ug/L	0.100		77	61-133			
Methoxychlor	0.106	0.300	ug/L	0.100		106	54-145			
Simazine	< 0.500	0.500	ug/L				35-124			
Toxaphene	< 1.50	1.50	ug/L				0-200			
Surrogate: Decachlorobiphenyl	*0.0959*		*ug/L*	*0.100*		*96*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0788*		*ug/L*	*0.100*		*79*	*44-124*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Organochlorine Pesticides by GC/ECD
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0027 - SW3510 *(Continued)*										
LCS-A.A.S (B4I0027-BS2)				*Prepared: 08/27/2014 11:30*			*Analyzed: 09/06/2014 16:37*			
Alachlor	0.294	0.500	ug/L	0.500		59	19-132			
Atrazine	0.332	0.500	ug/L	0.500		66	57-119			
Chlordane	< 0.500	0.500	ug/L				0-200			
Endrin	< 0.300	0.300	ug/L				60-138			
Lindane (gamma-BHC)	< 0.300	0.300	ug/L				59-134			
Heptachlor	< 0.300	0.300	ug/L				54-130			
Heptachlor epoxide	< 0.300	0.300	ug/L				61-133			
Methoxychlor	< 0.300	0.300	ug/L				54-145			
Simazine	0.316	0.500	ug/L	0.500		63	35-124			
Toxaphene	< 1.50	1.50	ug/L				0-200			
Surrogate: Decachlorobiphenyl	*0.00*		*ug/L*	*0.100*			*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.00*		*ug/L*	*0.100*			*44-124*			
LCS Dup (B4I0027-BSD1)				*Prepared: 08/27/2014 11:30*			*Analyzed: 09/02/2014 22:26*			
Alachlor	< 0.500	0.500	ug/L				19-132		20	
Atrazine	< 0.500	0.500	ug/L				57-119		20	
Chlordane	< 0.500	0.500	ug/L				0-200			
Endrin	0.0978	0.300	ug/L	0.100		98	60-138	8	20	
Lindane (gamma-BHC)	0.0759	0.300	ug/L	0.100		76	59-134	12	20	
Heptachlor	0.0934	0.300	ug/L	0.100		93	54-130	12	20	
Heptachlor epoxide	0.0854	0.300	ug/L	0.100		85	61-133	11	20	
Methoxychlor	0.120	0.300	ug/L	0.100		120	54-145	12	20	
Simazine	< 0.500	0.500	ug/L				35-124		20	
Toxaphene	< 1.50	1.50	ug/L				0-200			
Surrogate: Decachlorobiphenyl	*0.0924*		*ug/L*	*0.100*		*92*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0798*		*ug/L*	*0.100*		*80*	*44-124*			

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1101 - SW3510										
Blank (B4H1101-BLK1)				*Prepared: 08/27/2014 11:30 Analyzed: 08/28/2014 13:31*						
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Surrogate: Decachlorobiphenyl	*0.0680*		*ug/L*	*0.100*		*68*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0639*		*ug/L*	*0.100*		*64*	*13-133*			
LCS (B4H1101-BS1)				*Prepared: 08/27/2014 11:30 Analyzed: 08/28/2014 13:58*						
Aroclor 1016	0.799	0.500	ug/L	0.800		100	46-129			
Aroclor 1260	0.804	0.500	ug/L	0.800		100	45-134			
Surrogate: Decachlorobiphenyl	*0.0727*		*ug/L*	*0.100*		*73*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0738*		*ug/L*	*0.100*		*74*	*13-133*			
LCS Dup (B4H1101-BSD1)				*Prepared: 08/27/2014 11:30 Analyzed: 08/28/2014 14:25*						
Aroclor 1016	0.803	0.500	ug/L	0.800		100	46-129	0.4	20	
Aroclor 1260	0.765	0.500	ug/L	0.800		96	45-134	5	20	
Surrogate: Decachlorobiphenyl	*0.0659*		*ug/L*	*0.100*		*66*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0656*		*ug/L*	*0.100*		*66*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0344										
Blank (B4I0344-BLK1)				*Prepared: 09/09/2014 10:30*			*Analyzed: 09/09/2014 11:11*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B4I0344-BS1)				*Prepared: 09/09/2014 10:30*			*Analyzed: 09/09/2014 11:47*			
Aldicarb	50.8	2.00	ug/L	50.0		102	85-115			
Carbofuran	52.6	2.00	ug/L	50.0		105	85-115			
LCS Dup (B4I0344-BSD1)				*Prepared: 09/09/2014 10:30*			*Analyzed: 09/09/2014 17:20*			
Aldicarb	50.4	2.00	ug/L	50.0		101	85-115	0.7	20	
Carbofuran	51.6	2.00	ug/L	50.0		103	85-115	2	20	

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0026 - SW3510										
Blank (B4I0026-BLK1)				*Prepared: 09/01/2014 10:00*			*Analyzed: 09/04/2014 03:34*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*46.6*		*ug/L*	*50.0*		*93*	*20-138*			
LCS-A (B4I0026-BS1)				*Prepared: 09/01/2014 10:00*			*Analyzed: 09/04/2014 04:15*			
2,4,5-TP (Silvex)	9.82	1.50	ug/L	10.0		98	50-115			
2,4-D	9.76	1.50	ug/L	10.0		98	35-115			
Dinoseb	< 1.50	1.50	ug/L				20-100			
Picloram	9.89	1.50	ug/L	10.0		99	50-150			
Surrogate: 3,5-Dichlorobenzoic Acid	*44.1*		*ug/L*	*50.0*		*88*	*20-138*			
LCS-B (B4I0026-BS2)				*Prepared: 09/01/2014 10:00*			*Analyzed: 09/04/2014 05:36*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L				50-115			
2,4-D	< 1.50	1.50	ug/L				35-115			
Dinoseb	7.69	1.50	ug/L	10.0		77	20-100			
Picloram	< 1.50	1.50	ug/L				50-150			
Surrogate: 3,5-Dichlorobenzoic Acid	*50.0*		*ug/L*	*50.0*		*100*	*20-138*			
LCS-A Dup (B4I0026-BSD1)				*Prepared: 09/01/2014 10:00*			*Analyzed: 09/04/2014 04:55*			
2,4,5-TP (Silvex)	10.0	1.50	ug/L	10.0		100	50-115	2	20	
2,4-D	10.0	1.50	ug/L	10.0		100	35-115	2	20	
Dinoseb	< 1.50	1.50	ug/L				20-100		20	
Picloram	10.3	1.50	ug/L	10.0		103	50-150	4	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*43.4*		*ug/L*	*50.0*		*87*	*20-138*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0343 - SW5030										
Blank (B4I0343-BLK1)				*Prepared: 08/27/2014 10:52 Analyzed: 08/27/2014 23:50*						
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*26.4*		*ug/L*	*20.0*		*132*	*80-119*			*S*
Surrogate: 1,2-Dichloroethane-d4	*22.7*		*ug/L*	*20.0*		*114*	*81-118*			
Surrogate: Fluorobenzene	*17.3*		*ug/L*	*20.0*		*86*	*80-116*			
Surrogate: Toluene-d8	*16.1*		*ug/L*	*20.0*		*81*	*89-112*			*S*
Surrogate: 4-Bromofluorobenzene	*11.5*		*ug/L*	*10.0*		*115*	*85-114*			*S*
Surrogate: 1,2-Dichlorobenzene-d4	*24.2*		*ug/L*	*20.0*		*121*	*70-120*			*S*
LCS (B4I0343-BS1)				*Prepared: 08/27/2014 10:52 Analyzed: 08/28/2014 00:56*						
1,1,1-Trichloroethane	78.5	2.00	ug/L	80.0		98	74-131			
1,1,2-Trichloroethane	89.6	2.00	ug/L	80.0		112	80-119			
1,1-Dichloroethene	64.1	2.00	ug/L	80.0		80	71-131			
1,2-Dichloroethane	70.2	2.00	ug/L	80.0		88	73-128			
1,2-Dichloropropane	83.0	2.00	ug/L	80.0		104	78-122			
Benzene	92.7	2.00	ug/L	80.0		116	79-120			
Carbon tetrachloride	93.5	4.00	ug/L	80.0		117	72-136			
Chlorobenzene	75.1	2.00	ug/L	80.0		94	82-118			
cis-1,2-Dichloroethene	74.6	10.0	ug/L	80.0		93	78-123			
Ethylbenzene	82.3	2.00	ug/L	80.0		103	79-121			
Methyl tert-butyl ether	67.2	2.00	ug/L	80.0		84	71-124			
Dichloromethane (Methylene chloride)	69.2	2.00	ug/L	80.0		87	74-124			
Styrene	89.1	2.00	ug/L	80.0		111	78-123			
Tetrachloroethene	106	4.00	ug/L	80.0		133	74-129			S
Toluene	80.2	2.00	ug/L	80.0		100	80-121			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Volatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0343 - SW5030 *(Continued)*										
LCS (B4I0343-BS1) (Continued)				*Prepared: 08/27/2014 10:52*			*Analyzed: 08/28/2014 00:56*			
trans-1,2-Dichloroethene	76.4	10.0	ug/L	80.0		96	75-124			
Trichloroethene	90.1	2.00	ug/L	80.0		113	79-123			
Vinyl chloride	67.8	2.00	ug/L	80.0		85	58-137			
Xylenes, Total	225	8.00	ug/L	240		94	79-121			
Surrogate: Dibromofluoromethane	*19.2*		*ug/L*	*20.0*		*96*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.1*		*ug/L*	*20.0*		*96*	*81-118*			
Surrogate: Fluorobenzene	*19.2*		*ug/L*	*20.0*		*96*	*80-116*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.11*		*ug/L*	*10.0*		*91*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*18.7*		*ug/L*	*20.0*		*94*	*70-120*			
LCS Dup (B4I0343-BSD1)				*Prepared: 08/27/2014 10:52*			*Analyzed: 08/28/2014 01:28*			
1,1,1-Trichloroethane	76.2	2.00	ug/L	80.0		95	74-131	3	20	
1,1,2-Trichloroethane	87.1	2.00	ug/L	80.0		109	80-119	3	20	
1,1-Dichloroethene	66.8	2.00	ug/L	80.0		84	71-131	4	20	
1,2-Dichloroethane	73.2	2.00	ug/L	80.0		91	73-128	4	20	
1,2-Dichloropropane	80.9	2.00	ug/L	80.0		101	78-122	3	20	
Benzene	86.6	2.00	ug/L	80.0		108	79-120	7	20	
Carbon tetrachloride	80.8	4.00	ug/L	80.0		101	72-136	15	20	
Chlorobenzene	73.8	2.00	ug/L	80.0		92	82-118	2	20	
cis-1,2-Dichloroethene	76.7	10.0	ug/L	80.0		96	78-123	3	20	
Ethylbenzene	79.0	2.00	ug/L	80.0		99	79-121	4	20	
Methyl tert-butyl ether	74.6	2.00	ug/L	80.0		93	71-124	10	20	
Dichloromethane (Methylene chloride)	72.6	2.00	ug/L	80.0		91	74-124	5	20	
Styrene	86.4	2.00	ug/L	80.0		108	78-123	3	20	
Tetrachloroethene	100	4.00	ug/L	80.0		125	74-129	6	20	
Toluene	76.4	2.00	ug/L	80.0		95	80-121	5	20	
trans-1,2-Dichloroethene	73.7	10.0	ug/L	80.0		92	75-124	4	20	
Trichloroethene	85.0	2.00	ug/L	80.0		106	79-123	6	20	
Vinyl chloride	71.6	2.00	ug/L	80.0		89	58-137	5	20	
Xylenes, Total	220	8.00	ug/L	240		91	79-121	2	20	
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*17.0*		*ug/L*	*20.0*		*85*	*81-118*			
Surrogate: Fluorobenzene	*18.1*		*ug/L*	*20.0*		*90*	*80-116*			
Surrogate: Toluene-d8	*18.7*		*ug/L*	*20.0*		*94*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.52*		*ug/L*	*10.0*		*95*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*18.9*		*ug/L*	*20.0*		*95*	*70-120*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0379										
Blank (B4I0379-BLK1)				*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 17:03*			
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B4I0379-BS1)				*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 17:34*			
Ethylene Dibromide (1,2-Dibromoethane)	0.312	0.100	ug/L	0.250		125	70-130			
CCV1 opening (B4I0379-BS2)				*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 16:31*			
Ethylene Dibromide (1,2-Dibromoethane)	0.221	0.100	ug/L	0.250		89	70-130			
CCV2 closing (B4I0379-BS3)				*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 23:49*			
Ethylene Dibromide (1,2-Dibromoethane)	0.229	0.100	ug/L	0.250		92	70-130			
LCS Dup (B4I0379-BSD1)				*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 18:05*			
Ethylene Dibromide (1,2-Dibromoethane)	0.290	0.100	ug/L	0.250		116	70-130	7	20	
Duplicate (B4I0379-DUP1)		**Source: 14H0655-02**		*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 20:11*			
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0946	0.0946	ug/L		ND				200	
Matrix Spike (B4I0379-MS1)		**Source: 14H0655-01**		*Prepared: 09/02/2014 11:49*			*Analyzed: 09/02/2014 19:08*			
Ethylene Dibromide (1,2-Dibromoethane)	0.297	0.100	ug/L	0.250	ND	119	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0265										
Blank (B4I0265-BLK1)				*Prepared: 09/02/2014 08:00*			*Analyzed: 09/02/2014 15:47*			
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*8.27*		*ug/L*	*10.0*		*83*	*70-130*			
LCS (B4I0265-BS1)				*Prepared: 09/02/2014 08:00*			*Analyzed: 09/02/2014 15:03*			
Dalapon	9.87	0.500	ug/L	10.0		99	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*8.72*		*ug/L*	*10.0*		*87*	*70-130*			
Duplicate (B4I0265-DUP1)		**Source: 14H0660-01**		*Prepared: 09/02/2014 08:00*			*Analyzed: 09/02/2014 20:05*			
Dalapon	< 0.500	0.500	ug/L		ND				200	
Surrogate: 2,4-Dichlorophenylacetic acid	*7.60*		*ug/L*	*10.0*		*76*	*70-130*			
Matrix Spike (B4I0265-MS1)		**Source: 14H0655-01**		*Prepared: 09/02/2014 08:00*			*Analyzed: 09/02/2014 16:30*			
Dalapon	9.32	0.500	ug/L	10.0	ND	93	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*8.11*		*ug/L*	*10.0*		*81*	*70-130*			
Matrix Spike Dup (B4I0265-MSD1)		**Source: 14H0655-01**		*Prepared: 09/02/2014 08:00*			*Analyzed: 09/02/2014 17:13*			
Dalapon	9.28	0.500	ug/L	10.0	ND	93	70-130	0.4	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*8.00*		*ug/L*	*10.0*		*80*	*70-130*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1129 - SW3510										
Blank (B4H1129-BLK1)				*Prepared: 08/28/2014 07:00*			*Analyzed: 08/28/2014 12:09*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*26.2*		*ug/L*	*33.4*		*79*	*19-119*			
Surrogate: Phenol-d5	*24.5*		*ug/L*	*33.4*		*74*	*10-115*			
Surrogate: Nitrobenzene-d5	*29.9*		*ug/L*	*33.4*		*90*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*32.8*		*ug/L*	*33.4*		*98*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*24.7*		*ug/L*	*33.4*		*74*	*43-140*			
Surrogate: 4-Terphenyl-d14	*41.6*		*ug/L*	*33.4*		*125*	*50-134*			
Blank (B4H1129-BLK2)				*Prepared: 08/28/2014 07:00*			*Analyzed: 09/11/2014 12:48*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
LCS (B4H1129-BS1)				*Prepared: 08/28/2014 07:00*			*Analyzed: 08/28/2014 12:52*			
1,2,4-Trichlorobenzene	38.0	5.00	ug/L	50.0		76	29-116			
o-Dichlorobenzene (1,2-Dichlorobenzene)	37.5	5.00	ug/L	50.0		75	32-111			
p-Dichlorobenzene (1,4-Dichlorobenzene)	36.8	5.00	ug/L	50.0		74	29-112			
Benzo(a)pyrene	44.9	10.0	ug/L	50.0		90	54-128			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	43.5	10.0	ug/L	50.0		87	55-135			
Hexachlorocyclopentadiene	41.1	25.0	ug/L	50.0		82	50-150			
Pentachlorophenol	37.2	100	ug/L	50.0		74	35-138			
Surrogate: 2-Fluorophenol	*25.7*		*ug/L*	*33.4*		*77*	*19-119*			
Surrogate: Phenol-d5	*27.0*		*ug/L*	*33.4*		*81*	*10-115*			
Surrogate: Nitrobenzene-d5	*30.7*		*ug/L*	*33.4*		*92*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*33.0*		*ug/L*	*33.4*		*99*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*32.7*		*ug/L*	*33.4*		*98*	*43-140*			
Surrogate: 4-Terphenyl-d14	*42.8*		*ug/L*	*33.4*		*128*	*50-134*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4H1129 - SW3510 *(Continued)*										
LCS-1 (B4H1129-BS2)				*Prepared: 08/28/2014 07:00*			*Analyzed: 09/11/2014 14:52*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L				29-116			
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L				32-111			
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L				29-112			
Benzo(a)pyrene	< 10.0	10.0	ug/L				54-128			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L				55-135			
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L				50-150			
Pentachlorophenol	< 100	100	ug/L				35-138			
Surrogate: 2-Fluorophenol	*0.00*		*ug/L*	*33.4*			*19-119*			
Surrogate: Phenol-d5	*0.00*		*ug/L*	*33.4*			*10-115*			
Surrogate: Nitrobenzene-d5	*0.00*		*ug/L*	*33.4*			*44-120*			
Surrogate: 2-Fluorobiphenyl	*0.00*		*ug/L*	*33.4*			*44-119*			
Surrogate: 2,4,6-Tribromophenol	*0.00*		*ug/L*	*33.4*			*43-140*			
Surrogate: 4-Terphenyl-d14	*0.00*		*ug/L*	*33.4*			*50-134*			
LCS Dup (B4H1129-BSD1)				*Prepared: 08/28/2014 07:00*			*Analyzed: 08/28/2014 13:34*			
1,2,4-Trichlorobenzene	40.3	5.00	ug/L	50.0		81	29-116	6	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	39.0	5.00	ug/L	50.0		78	32-111	4	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	38.9	5.00	ug/L	50.0		78	29-112	6	20	
Benzo(a)pyrene	45.3	10.0	ug/L	50.0		91	54-128	0.9	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	43.8	10.0	ug/L	50.0		88	55-135	0.7	20	
Hexachlorocyclopentadiene	41.4	25.0	ug/L	50.0		83	50-150	0.7	20	
Pentachlorophenol	35.2	100	ug/L	50.0		70	35-138	6	20	
Surrogate: 2-Fluorophenol	*26.2*		*ug/L*	*33.4*		*79*	*19-119*			
Surrogate: Phenol-d5	*27.5*		*ug/L*	*33.4*		*82*	*10-115*			
Surrogate: Nitrobenzene-d5	*31.7*		*ug/L*	*33.4*		*95*	*44-120*			
Surrogate: 2-Fluorobiphenyl	*33.0*		*ug/L*	*33.4*		*99*	*44-119*			
Surrogate: 2,4,6-Tribromophenol	*32.8*		*ug/L*	*33.4*		*98*	*43-140*			
Surrogate: 4-Terphenyl-d14	*42.6*		*ug/L*	*33.4*		*128*	*50-134*			
Batch: B4I0009										
Blank (B4I0009-BLK1)				*Prepared: 09/01/2014 08:00*			*Analyzed: 09/10/2014 22:48*			
Endothall	< 15.5	15.5	ug/L							
Surrogate: 2,4,6-Tribromophenol	*387*		*ug/L*	*334*		*116*	*20-200*			
LCS (B4I0009-BS1)				*Prepared: 09/01/2014 08:00*			*Analyzed: 09/10/2014 23:31*			
Endothall	688	15.5	ug/L	500		138	50-150			
Surrogate: 2,4,6-Tribromophenol	*439*		*ug/L*	*334*		*131*	*20-200*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Third Quarter 2014
Work Order: 14H0660

Report Date: 10/01/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4I0009 *(Continued)*										
Duplicate (B4I0009-DUP1)		**Source: 14H0655-01**		*Prepared: 09/01/2014 08:00*			*Analyzed: 09/11/2014 00:57*			
Endothall	< 15.5	15.5	ug/L		ND				200	
Surrogate: 2,4,6-Tribromophenol	*363*		*ug/L*	*334*		*109*	*20-200*			
Matrix Spike (B4I0009-MS1)		**Source: 14H0655-02**		*Prepared: 09/01/2014 08:00*			*Analyzed: 09/11/2014 04:33*			
Endothall	526	15.5	ug/L	500	ND	105	50-150			
Surrogate: 2,4,6-Tribromophenol	*433*		*ug/L*	*334*		*130*	*20-200*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
E420.1 Rev.1978 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	ISO,AKDEC,WDNR,DoD,ILEPA
Barium	7440-39-3	ISO,AKDEC,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	ISO,AKDEC,WDNR,DoD,ILEPA
Chromium	7440-47-3	ISO,AKDEC,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,WDNR,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	ISO,AKDEC,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Nickel	7440-02-0	ISO,AKDEC,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	ISO,WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR
SW8082A in Water		

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Environmental Monitoring and Technologies, Inc.

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water (Continued)		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Benzene	71-43-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,ILEPA,DoD
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,ILEPA,DoD
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,ILEPA,DoD
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Styrene	100-42-5	LELAP,WDNR,ILEPA,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Toluene	108-88-3	AKDEC,LELAP,WDNR,ILEPA,DoD
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,ILEPA,DoD
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,ILEPA,DoD
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321A in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9010Bby Aquachem in Water		
Cyanide	57-12-5	DoD,ILEPA,WDNR

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	10/31/2014
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAC Accredited Lab No. 100256	003041	07/27/2015
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAC Accredited Lab No. 171344	05015	06/30/2015
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2015

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Environmental Monitoring and Technologies, Inc.

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Qualifiers and Definitions

Item	Description
B	Analyte was present in the method blank.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 14H0660

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: J. Bitner	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SN; SW9010Bby Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days): 5. Expedited (days): . Due Date: 9/4/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code	Sample Comments
MW-3	08/26/14	13:20	G	W	19	5 3 1 3 10 1 1	SABCDEFHIJ SLUM NOPQR S

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	08/26/14 15:00		08/26/14 15:00		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	08/29/14 13:10				
Relinquished By	Date/Time	Received By	Date/Time		

Cooler Numbers and Temperatures: 6

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Response to 1st RTP
CWLP - 02492

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 14H0660

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: S. D. Suhagda	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9010Bby Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 9/4/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AP-1	08/26/14	12:10	G	W	19	3	1	3	10	1	1					DO PROJECT WITH KLM LABS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	08/26/14 18:10				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time		
Cooler Numbers and Temperatures: 6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Response to 1st RTP
CWLP - 02493

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 14H0660

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Graham	Sampler Signature: Patrick Graham

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SN; SW9010Bby Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 9/4/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AD-2	8-26-14	1145	G	W	19	3	1	3	10	1	1	OZABCDEFGHI JKLMNOQRS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Graham	8/26/14 1400		08/26/14 14:00		
	08/26/14 18:10			Comments	

Cooler Numbers and Temperatures: 6

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Response to 1st RTP
CWLP - 02494

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Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 14H0660

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Brahm	Sampler Signature: Patrick Brahm

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9010Bby Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 9/4/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AP-3	8-26-14	11:10	G	W	19	3	1	3	10	1	1					DAABCDEFGHIJ KLMNOPQRS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Brahm	8-26-14 1400		08/26/14 14:00		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	08/26/14 18:10				
Relinquished By	Date/Time	Received By	Date/Time		
Cooler Numbers and Temperatures: 6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Response to 1st RTP
CWLP - 02495

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 14H0660

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone: (217) 757-8610	Fax: (217) 757-8615
Tracking Number	
Sampler: S. D. Suhajda	Sampler Signature

Requested Analyses										Requested Turn Around
SW8260B	E531.1	SM7500::SW6020A::SW7470A	E504.1::E548.1::E552.1::SM2510B::SM	SW9010Bby Aquachem	E420.1 Rev.1978 by Aquachem					Rush requests subject to additional charge Rush requests subject to lab approval Standard (days): 5 Expedited (days): Due Date: 9/4/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	2					
AP-4	08/26/14	11:20	G	W	19	3	1	3	10	1	1					ASABCDEFGHI
08/26 AP-4	08/26/14															JKLMNOPQRS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	08/26/14 18:10				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time		
Cooler Numbers and Temperatures: 6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Response to 1st RTP
CWLP - 02496

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 14H0660

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler	Sampler Signature
	F. Corrigan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SN; SW9010Bby Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 9/4/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AP-5	08/26/14	08:45	G	W	19	3	1	3	10	1	1	DIABLO EIGHT SKUMWORKS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	08/26/14 10:00		08/26/14 10:00		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	08/26/14 18:10				
Relinquished By	Date/Time	Received By	Date/Time		
Cooler Numbers and Temperatures					
6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Response to 1st RTP
CWLP - 02497

Sample Receipt Checklist

Work Order: 14H0660

Printed: 8/27/2014 12:29:33PM

Client:	**City, Water, Light & Power**	**Date Due:**	**09/03/14 17:00 (5 day TAT)**
Project:	**List G20**		

Received By:	**Alyssa Kruse**	**Date Received:**	**08/26/14 18:10**
Logged In By:	**Jason Cristino**	**Date Logged In:**	**08/20/14 10:56**

Samples Received at:	6°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Cont/Cooler Intact	Yes
COC Present/Complete	Yes
COC/Labels Agree	Yes
Proper Cont/Preservation	No
Sufficient Sample Volume	Yes
Samples Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
VOA Water Vials/Zero Headspace	Yes
PM/Client Contact Required	No

COMMENTS

All samples: Containers preserved with NaOH had a pH of approximately 10. More NaOH was added for each sample to bring to a pH of >12.

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14H0660, CWLP Radium, JC

Reported 9/25/14 mh

LABORATORY REPORT

This report contains 7 pages.
(including the cover page)

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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eurofins

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 324404
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3093445	14H0660-01	7500-Ra B	08/26/14 13:20	Client	08/28/14 09:15
3093445	14H0660-01	7500-Ra D	08/26/14 13:20	Client	08/28/14 09:15
3093446	14H0660-02	7500-Ra B	08/26/14 12:10	Client	08/28/14 09:15
3093446	14H0660-02	7500-Ra D	08/26/14 12:10	Client	08/28/14 09:15
3093447	14H0660-03	7500-Ra B	08/26/14 11:45	Client	08/28/14 09:15
3093447	14H0660-03	7500-Ra D	08/26/14 11:45	Client	08/28/14 09:15
3093448	14H0660-04	7500-Ra B	08/26/14 11:10	Client	08/28/14 09:15
3093448	14H0660-04	7500-Ra D	08/26/14 11:10	Client	08/28/14 09:15
3093449	14H0660-05	7500-Ra B	08/26/14 11:20	Client	08/28/14 09:15
3093449	14H0660-05	7500-Ra D	08/26/14 11:20	Client	08/28/14 09:15

Report Summary

Note: Sample containers were provided by the client.

Note: The Method 7500-Ra B sample results for sites 14H0660-02 and 14H0660-04 are low biased due to high biased barium carrier recovery, due to a dirty matrix.

Note: The Method 7500-Ra B sample result for site 14H0660-03 is low biased due to high biased barium carrier recovery, due to a dirty matrix. There is detectable radium activity, but too much matrix interference for quantitation.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

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Client Name: Environmental Monitoring Technologies Report #: 324404

Digitally signed by James Van Fleit
Date: 2014.09.25 07:31:58 -04'00'

Authorized Signature Title Date

Client Name: Environmental Monitoring Technologies
Report #: 324404

Electronic Filing: Received, Clerk's Office 01/29/2020

Client Name: Environmental Monitoring Technologies Report #: 324404

Sampling Point: 14H0660-01 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.56	0.47 ± 0.38	pCi/L	09/04/14 11:00	09/09/14 11:52	3093445
15262-20-1	Radium-228	7500-Ra D	---	0.38	**0.93 ± 0.42**	pCi/L	09/04/14 11:00	09/22/14 15:54	3093445
---	Combined Radium	calc.	5 *	0.56	**1.40 ± 0.57**	pCi/L	09/04/14 11:00	09/22/14 15:54	3093445

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14H0660-02 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.5	**2.6 ± 0.7**	pCi/L	09/04/14 11:00	09/09/14 11:52	3093446
15262-20-1	Radium-228	7500-Ra D	---	0.3	**1.4 ± 0.4**	pCi/L	09/04/14 11:00	09/22/14 15:54	3093446
---	Combined Radium	calc.	5 *	0.5	**4.0 ± 0.8**	pCi/L	09/04/14 11:00	09/22/14 15:54	3093446

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14H0660-03 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	-0.34	-0.90 ± -0.34	pCi/L	09/04/14 11:00	09/09/14 11:52	3093447
15262-20-1	Radium-228	7500-Ra D	---	0.42	**0.62 ± 0.43**	pCi/L	09/04/14 11:00	09/22/14 15:54	3093447
---	Combined Radium	calc.	5 *	0.42	-0.28 ± 0.55	pCi/L	09/04/14 11:00	09/22/14 15:54	3093447

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14H0660-04 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.41	**0.66 ± 0.34**	pCi/L	09/04/14 11:00	09/09/14 11:52	3093448
15262-20-1	Radium-228	7500-Ra D	---	0.32	**0.49 ± 0.33**	pCi/L	09/04/14 11:00	09/22/14 14:44	3093448
---	Combined Radium	calc.	5 *	0.41	**1.15 ± 0.47**	pCi/L	09/04/14 11:00	09/22/14 14:44	3093448

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

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Client Name: Environmental Monitoring Technologies Report #: 324404

Sampling Point: 14H0660-05 PWS ID: Not Supplied

Radionuclides									
Analyte ID #	Analyte	Method	Reg Limit	DL**	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.5	1.8 ± 0.6	pCi/L	09/04/14 11:00	09/09/14 11:52	3093449
15262-20-1	Radium-228	7500-Ra D	---	0.36	0.42 ± 0.36	pCi/L	09/04/14 11:00	09/22/14 14:44	3093449
---	Combined Radium	calc.	5 *	0.5	2.22 ± 0.67	pCi/L	09/04/14 11:00	09/22/14 14:44	3093449

** Detection Limit (DL) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 14H0660-06 PWS ID: Not Supplied

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Client Name: Environmental Monitoring Technologies Report #: 324404

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

14H0660

2604/9

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins (Underwriters Laboratory), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone: (574) 233-4777
Fax: (847) 407-1916

3/24/14

All under PO # 22022 for Radium 226 & 228

Laboratory ID

Analysis	Due	Expires	Comments
Sample ID: 14H0660-01 **Water**	**Sampled:08/26/14 13:20**		
Radiation Testing, Subcontracted *Containers Supplied:*	09/03/14 10:00	09/25/14 13:20	PO #: 22022, Radium 226 and 228, Standard TAT
Sample ID: 14H0660-02 **Water**	**Sampled:08/26/14 12:10**		
Radiation Testing, Subcontracted *Containers Supplied:*	09/03/14 10:00	09/25/14 12:10	PO #: 22022, Radium 226 and 228, Standard TAT
Sample ID: 14H0660-03 **Water**	**Sampled:08/26/14 11:45**		
Radiation Testing, Subcontracted *Containers Supplied:*	09/03/14 10:00	09/25/14 11:45	PO #: 22022, Radium 226 and 228, Standard TAT
Sample ID: 14H0660-04 **Water**	**Sampled:08/26/14 11:10**		
Radiation Testing, Subcontracted *Containers Supplied:*	09/03/14 10:00	09/25/14 11:10	PO #: 22022, Radium 226 and 228, Standard TAT
Sample ID: 14H0660-05 **Water**	**Sampled:08/26/14 11:20**		
Radiation Testing, Subcontracted *Containers Supplied:*	09/03/14 10:00	09/25/14 11:20	PO #: 22022, Radium 226 and 228, Standard TAT
Sample ID: 14H0660-06 **Water**	**Sampled:08/26/14 08:45**		
Radiation Testing, Subcontracted *Containers Supplied:*	09/03/14 10:00	09/25/14 08:45	PO #: 22022, Radium 226 and 228, Standard TAT

FH 4396 3/27/14

* 2 32 oz HDPE containers each Client Provided Sample Container Ambient

Released By	Date	Received By	Date
	3/27/14 1430		3.28.14 MIS
Released By	Date	Received By	Date

Liters Received =

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

December 29, 2014

Work Order: 14K0275

RE: List G20
Fourth Quarter 2014

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 12/29/2014 12:06:19PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.
Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	14K0275-01	Groundwater	11/21/14 08:35	11/21/14 14:30
AP-1	14K0275-02	Groundwater	11/21/14 12:15	11/21/14 14:30
AP-2	14K0275-03	Groundwater	11/21/14 09:25	11/21/14 14:30
AP-3	14K0275-04	Groundwater	11/21/14 08:20	11/21/14 14:30
AP-4	14K0275-05	Groundwater	11/21/14 09:15	11/21/14 14:30
AP-5	14K0275-06	Groundwater	11/21/14 11:45	11/21/14 14:30
AW-3	14K0275-01	Groundwater	11/21/14 08:35	11/21/14 14:30
AP-1	14K0275-02	Groundwater	11/21/14 12:15	11/21/14 14:30
AP-2	14K0275-03	Groundwater	11/21/14 09:25	11/21/14 14:30
AP-3	14K0275-04	Groundwater	11/21/14 08:20	11/21/14 14:30
AP-4	14K0275-05	Groundwater	11/21/14 09:15	11/21/14 14:30
AP-5	14K0275-06	Groundwater	11/21/14 11:45	11/21/14 14:30
AW-3	14K0275-01	Groundwater	11/21/14 08:35	11/21/14 14:30
AP-1	14K0275-02	Groundwater	11/21/14 12:15	11/21/14 14:30
AP-2	14K0275-03	Groundwater	11/21/14 09:25	11/21/14 14:30
AP-3	14K0275-04	Groundwater	11/21/14 08:20	11/21/14 14:30
AP-4	14K0275-05	Groundwater	11/21/14 09:15	11/21/14 14:30
AP-5	14K0275-06	Groundwater	11/21/14 11:45	11/21/14 14:30

Response to 1st RTP
CWLP - 02508

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Case Narrative

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Date: 12/29/2014

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Work Order: 14K0275

The samples were received on 11/21/2014 2:30:00 PM . The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 4 degrees C.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Project:	List G20 Fourth Quarter 2014	**Report Date:**	12/29/2014
		Collection Date:	11/21/2014 08:35
Work Order:	14K0275	**Matrix:**	Groundwater
		Lab ID:	14K0275-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**495.85**	0.00		No unit	11/21/14 08:35	B4L0037	FO1
Depth to water (feet below land surface)	**8.80**	0.00		No unit	11/21/14 08:35	B4L0037	FO1
Depth to water (feet from measuring point)	**11.38**	0.00		No unit	11/21/14 08:35	B4L0037	FO1
Elevation of groundwater surface (Feet)	**528.95**	0.00		No unit	11/21/14 08:35	B4L0037	FO1
Method: SM2510B							
Specific Conductance	**762**	0.00		uS/cm	11/21/14 08:35	B4L0037	FO1
Method: SM2550-B							
Temperature	**54.9**	1.00		°F	11/21/14 08:35	B4L0037	FO1
Method: SM4500-H							
pH	**7.35**	0.05		pH Units	11/21/14 08:35	B4L0037	FO1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Arsenic	**0.118**	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Barium	**0.180**	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Beryllium	< 0.00312	0.00312		mg/L	12/01/14 10:58	B4K1082	AG
Boron	**0.156**	0.0156		mg/L	12/01/14 10:58	B4K1082	AG
Cadmium	< 0.00312	0.00312		mg/L	12/01/14 10:58	B4K1082	AG
Chromium	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Cobalt	< 0.0156	0.0156		mg/L	12/01/14 10:58	B4K1082	AG
Copper	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Iron	**11.0**	0.625		mg/L	12/01/14 10:58	B4K1082	AG
Lead	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Manganese	**0.255**	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Nickel	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Selenium	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Silver	< 0.00312	0.00312		mg/L	12/01/14 10:58	B4K1082	AG
Thallium	< 0.0312	0.0312		mg/L	12/01/14 10:58	B4K1082	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.0005	0.0005		mg/L	11/25/14 16:01	B4K1010	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**24.2**	2.00		mg/L	11/21/14 18:14	B4K0859	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AW-3
Report Date: 12/29/2014
Collection Date: 11/21/2014 08:35
Matrix: Groundwater
Lab ID: 14K0275-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Fluoride	< 0.500	0.500		mg/L		11/21/14 18:14	B4K0859	GSB
Nitrogen, Nitrate	< 0.500	0.500		mg/L		11/21/14 18:14	B4K0859	GSB
Sulfate	**8.70**	5.00		mg/L		11/21/14 18:14	B4K0859	GSB
Wet Chemistry								
Method: E420.1 Rev.1978 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/24/14 14:26	B4K0921	JN1
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**468**	10.0		mg/L		11/24/14 13:30	B4K0933	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		12/02/14 11:27	B4L0082	JN1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.924	0.924		ug/L		11/25/14 21:24	B4K1025	LP
Atrazine	< 0.924	0.924		ug/L		11/25/14 21:24	B4K1025	LP
Chlordane	< 0.924	0.924		ug/L		11/25/14 21:24	B4K1025	LP
Endrin	< 0.554	0.554		ug/L		11/25/14 21:24	B4K1025	LP
Lindane	< 0.554	0.554		ug/L		11/25/14 21:24	B4K1025	LP
Heptachlor	< 0.554	0.554		ug/L		11/25/14 21:24	B4K1025	LP
Heptachlor epoxide	< 0.554	0.554		ug/L		11/25/14 21:24	B4K1025	LP
Methoxychlor	< 0.554	0.554		ug/L		11/25/14 21:24	B4K1025	LP
Simazine	< 0.924	0.924		ug/L		11/25/14 21:24	B4K1025	LP
Toxaphene	< 2.77	2.77		ug/L		11/25/14 21:24	B4K1025	LP
Surrogate: Decachlorobiphenyl				*Recovery: 106%*	*Limits: 30-135*	*11/25/14 21:24*	*B4K1025*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 65%*	*Limits: 44-124*	*11/25/14 21:24*	*B4K1025*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.462	0.462		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1221	< 0.739	0.739		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1232	< 0.924	0.924		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1242	< 0.924	0.924		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1248	< 0.924	0.924		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1254	< 0.739	0.739		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1260	< 0.462	0.462		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1262	< 0.924	0.924		ug/L		11/25/14 22:16	B4K1029	NCH
Aroclor 1268	< 0.462	0.462		ug/L		11/25/14 22:16	B4K1029	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 89%*	*Limits: 40-135*	*11/25/14 22:16*	*B4K1029*	*NCH*

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AW-3
Report Date: 12/29/2014
Collection Date: 11/21/2014 08:35
Matrix: Groundwater
Lab ID: 14K0275-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 51%*	*Limits: 13-133*	*11/25/14 22:16*	*B4K1029*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/03/14 14:14	B4L0164	MNN
Carbofuran	< 2.00	2.00		ug/L		12/03/14 14:14	B4L0164	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		12/01/14 22:46	B4K1047	MNN
2,4-D	< 1.48	1.48		ug/L		12/01/14 22:46	B4K1047	MNN
Dinoseb	< 1.48	1.48		ug/L		12/01/14 22:46	B4K1047	MNN
Picloram	< 1.48	1.48		ug/L		12/01/14 22:46	B4K1047	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 51%*	*Limits: 20-138*	*12/01/14 22:46*	*B4K1047*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Benzene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/25/14 18:46	B4K1085	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 18:46	B4K1085	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Dichloromethane	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Styrene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/25/14 18:46	B4K1085	XN
Toluene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 18:46	B4K1085	XN
Trichloroethene	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/14 18:46	B4K1085	XN
Xylenes, Total	< 6.00	6.00		ug/L		11/25/14 18:46	B4K1085	XN
Surrogate: Dibromofluoromethane				*Recovery: 116%*	*Limits: 80-119*	*11/25/14 18:46*	*B4K1085*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 81-118*	*11/25/14 18:46*	*B4K1085*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*11/25/14 18:46*	*B4K1085*	*XN*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 89-112*	*11/25/14 18:46*	*B4K1085*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 85-114*	*11/25/14 18:46*	*B4K1085*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 99%*	*Limits: 70-120*	*11/25/14 18:46*	*B4K1085*	*XN*

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Project:	List G20 Fourth Quarter 2014	**Report Date:**	12/29/2014
		Collection Date:	11/21/2014 08:35
Work Order:	14K0275	**Matrix:**	Groundwater
		Lab ID:	14K0275-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		12/01/14 15:00	B4L0162	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		12/01/14 15:00	B4L0162	LP
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.95	4.95		ug/L		11/25/14 17:02	B4K0970	BW
o-Dichlorobenzene	< 4.95	4.95		ug/L		11/25/14 17:02	B4K0970	BW
p-Dichlorobenzene	< 4.95	4.95		ug/L		11/25/14 17:02	B4K0970	BW
Benzo(a)pyrene	< 9.90	9.90		ug/L		11/25/14 17:02	B4K0970	BW
Di(2-ethylhexyl)phthalate	< 9.90	9.90		ug/L		11/25/14 17:02	B4K0970	BW
Hexachlorocyclopentadiene	< 24.7	24.7		ug/L		11/25/14 17:02	B4K0970	BW
Pentachlorophenol	< 99.0	99.0		ug/L		11/25/14 17:02	B4K0970	BW
Surrogate: 2-Fluorophenol				*Recovery: 43%*	*Limits: 4-108*	*11/25/14 17:02*	*B4K0970*	*BW*
Surrogate: Phenol-d5				*Recovery: 34%*	*Limits: 1-101*	*11/25/14 17:02*	*B4K0970*	*BW*
Surrogate: Nitrobenzene-d5				*Recovery: 85%*	*Limits: 23-119*	*11/25/14 17:02*	*B4K0970*	*BW*
Surrogate: 2-Fluorobiphenyl				*Recovery: 88%*	*Limits: 28-124*	*11/25/14 17:02*	*B4K0970*	*BW*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 72%*	*Limits: 11-102*	*11/25/14 17:02*	*B4K0970*	*BW*
Surrogate: 4-Terphenyl-d14				*Recovery: 103%*	*Limits: 79-162*	*11/25/14 17:02*	*B4K0970*	*BW*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.35**	1		pCi/L		12/05/14 00:00		UL
Radium-228	**1.4**	1		pCi/L		12/22/14 00:00		UL
Summit Environmental Technologies, Subcontract								
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 2.2	2.2		ug/L		12/11/14 00:00		SUMMI
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 5.0	5		ug/L		12/04/14 00:00		SUMMI

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-1
Report Date: 12/29/2014
Collection Date: 11/21/2014 12:15
Matrix: Groundwater
Lab ID: 14K0275-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	506.47	0.00		No unit	11/21/14 12:15	B4L0037	AS5
Depth to water (feet below land surface)	7.98	0.00		No unit	11/21/14 12:15	B4L0037	AS5
Depth to water (feet from measuring point)	10.50	0.00		No unit	11/21/14 12:15	B4L0037	AS5
Elevation of groundwater surface (Feet)	527.55	0.00		No unit	11/21/14 12:15	B4L0037	AS5
Method: SM2510B							
Specific Conductance	1090	0.00		uS/cm	11/21/14 12:15	B4L0037	AS5
Method: SM2550-B							
Temperature	60.6	1.00		°F	11/21/14 12:15	B4L0037	AS5
Method: SM4500-H							
pH	7.15	0.05		pH Units	11/21/14 12:15	B4L0037	AS5
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Arsenic	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Barium	0.952	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Beryllium	< 0.00312	0.00312		mg/L	12/01/14 11:00	B4K1082	AG
Boron	17.9	0.0156		mg/L	12/01/14 11:00	B4K1082	AG
Cadmium	< 0.00312	0.00312		mg/L	12/01/14 11:00	B4K1082	AG
Chromium	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Cobalt	< 0.0156	0.0156		mg/L	12/01/14 11:00	B4K1082	AG
Copper	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Iron	32.7	0.625		mg/L	12/01/14 11:00	B4K1082	AG
Lead	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Manganese	0.482	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Nickel	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Selenium	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Silver	< 0.00312	0.00312		mg/L	12/01/14 11:00	B4K1082	AG
Thallium	< 0.0312	0.0312		mg/L	12/01/14 11:00	B4K1082	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.0005	0.0005		mg/L	11/25/14 16:05	B4K1010	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	47.7	2.00		mg/L	11/22/14 19:26	B4K0874	GSB

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-1
Report Date: 12/29/2014
Collection Date: 11/21/2014 12:15
Matrix: Groundwater
Lab ID: 14K0275-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Fluoride	< 0.500	0.500		mg/L		11/22/14 19:26	B4K0874	GSB
Nitrogen, Nitrate	< 0.500	0.500		mg/L		11/22/14 19:26	B4K0874	GSB
Sulfate	**619**	50.0		mg/L		11/30/14 01:16	B4K1108	GSB
Wet Chemistry								
Method: E420.1 Rev.1978 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/24/14 14:26	B4K0921	JN1
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1490**	10.0		mg/L		11/24/14 13:30	B4K0933	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		12/02/14 11:27	B4L0082	JN1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.938	0.938		ug/L		11/25/14 22:11	B4K1025	LP
Atrazine	< 0.938	0.938		ug/L		11/25/14 22:11	B4K1025	LP
Chlordane	< 0.938	0.938		ug/L		11/25/14 22:11	B4K1025	LP
Endrin	< 0.563	0.563		ug/L		11/25/14 22:11	B4K1025	LP
Lindane	< 0.563	0.563		ug/L		11/25/14 22:11	B4K1025	LP
Heptachlor	< 0.563	0.563		ug/L		11/25/14 22:11	B4K1025	LP
Heptachlor epoxide	< 0.563	0.563		ug/L		11/25/14 22:11	B4K1025	LP
Methoxychlor	< 0.563	0.563		ug/L		11/25/14 22:11	B4K1025	LP
Simazine	< 0.938	0.938		ug/L		11/25/14 22:11	B4K1025	LP
Toxaphene	< 2.81	2.81		ug/L		11/25/14 22:11	B4K1025	LP
Surrogate: Decachlorobiphenyl				*Recovery: 70%*	*Limits: 30-135*	*11/25/14 22:11*	*B4K1025*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 44-124*	*11/25/14 22:11*	*B4K1025*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.469	0.469		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1221	< 0.750	0.750		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1232	< 0.938	0.938		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1242	< 0.938	0.938		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1248	< 0.938	0.938		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1254	< 0.750	0.750		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1260	< 0.469	0.469		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1262	< 0.938	0.938		ug/L		11/25/14 22:43	B4K1029	NCH
Aroclor 1268	< 0.469	0.469		ug/L		11/25/14 22:43	B4K1029	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 87%*	*Limits: 40-135*	*11/25/14 22:43*	*B4K1029*	*NCH*

Response to 1st RTP
CWLP - 02515

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-1
Report Date: 12/29/2014
Collection Date: 11/21/2014 12:15
Matrix: Groundwater
Lab ID: 14K0275-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 13-133*	*11/25/14 22:43*	*B4K1029*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/03/14 14:52	B4L0164	MNN
Carbofuran	< 2.00	2.00		ug/L		12/03/14 14:52	B4L0164	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.44	1.44		ug/L		12/01/14 23:28	B4K1047	MNN
2,4-D	< 1.44	1.44		ug/L		12/01/14 23:28	B4K1047	MNN
Dinoseb	< 1.44	1.44		ug/L		12/01/14 23:28	B4K1047	MNN
Picloram	< 1.44	1.44		ug/L		12/01/14 23:28	B4K1047	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 53%*	*Limits: 20-138*	*12/01/14 23:28*	*B4K1047*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Benzene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/25/14 03:15	B4L0127	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 03:15	B4L0127	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Dichloromethane	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Styrene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/25/14 03:15	B4L0127	XN
Toluene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 03:15	B4L0127	XN
Trichloroethene	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/14 03:15	B4L0127	XN
Xylenes, Total	< 6.00	6.00		ug/L		11/25/14 03:15	B4L0127	XN
Surrogate: Dibromofluoromethane				*Recovery: 114%*	*Limits: 80-119*	*11/25/14 03:15*	*B4L0127*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 109%*	*Limits: 81-118*	*11/25/14 03:15*	*B4L0127*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*11/25/14 03:15*	*B4L0127*	*XN*
Surrogate: Toluene-d8				*Recovery: 102%*	*Limits: 89-112*	*11/25/14 03:15*	*B4L0127*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 111%*	*Limits: 85-114*	*11/25/14 03:15*	*B4L0127*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 100%*	*Limits: 70-120*	*11/25/14 03:15*	*B4L0127*	*XN*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-1
Report Date: 12/29/2014
Collection Date: 11/21/2014 12:15
Matrix: Groundwater
Lab ID: 14K0275-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		12/01/14 16:34	B4L0162	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		12/01/14 16:34	B4L0162	LP
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.96	4.96		ug/L		11/25/14 17:48	B4K0970	BW
o-Dichlorobenzene	< 4.96	4.96		ug/L		11/25/14 17:48	B4K0970	BW
p-Dichlorobenzene	< 4.96	4.96		ug/L		11/25/14 17:48	B4K0970	BW
Benzo(a)pyrene	< 9.91	9.91		ug/L		11/25/14 17:48	B4K0970	BW
Di(2-ethylhexyl)phthalate	< 9.91	9.91		ug/L		11/25/14 17:48	B4K0970	BW
Hexachlorocyclopentadiene	< 24.8	24.8		ug/L		11/25/14 17:48	B4K0970	BW
Pentachlorophenol	< 99.1	99.1		ug/L		11/25/14 17:48	B4K0970	BW
Surrogate: 2-Fluorophenol				*Recovery: 45%*	*Limits: 4-108*	*11/25/14 17:48*	*B4K0970*	*BW*
Surrogate: Phenol-d5				*Recovery: 34%*	*Limits: 1-101*	*11/25/14 17:48*	*B4K0970*	*BW*
Surrogate: Nitrobenzene-d5				*Recovery: 80%*	*Limits: 23-119*	*11/25/14 17:48*	*B4K0970*	*BW*
Surrogate: 2-Fluorobiphenyl				*Recovery: 84%*	*Limits: 28-124*	*11/25/14 17:48*	*B4K0970*	*BW*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 80%*	*Limits: 11-102*	*11/25/14 17:48*	*B4K0970*	*BW*
Surrogate: 4-Terphenyl-d14				*Recovery: 132%*	*Limits: 79-162*	*11/25/14 17:48*	*B4K0970*	*BW*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**1.2**	1		pCi/L		12/05/14 00:00		UL
Radium-228	**0.46**	1		pCi/L		12/22/14 00:00		UL
Summit Environmental Technologies, Subcontract								
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 2.2	2.2		ug/L		12/11/14 00:00		SUMMI
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 5.0	5		ug/L		12/04/14 00:00		SUMMI

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-2
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:25
Matrix: Groundwater
Lab ID: 14K0275-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**520.52**	0.00		No unit	11/21/14 09:25	B4L0037	PB
Depth to water (feet below land surface)	**4.35**	0.00		No unit	11/21/14 09:25	B4L0037	PB
Depth to water (feet from measuring point)	**6.59**	0.00		No unit	11/21/14 09:25	B4L0037	PB
Elevation of groundwater surface (Feet)	**533.71**	0.00		No unit	11/21/14 09:25	B4L0037	PB
Method: SM2510B							
Specific Conductance	**1290**	0.00		uS/cm	11/21/14 09:25	B4L0037	PB
Method: SM2550-B							
Temperature	**48.3**	1.00		°F	11/21/14 09:25	B4L0037	PB
Method: SM4500-H							
pH	**7.03**	0.05		pH Units	11/21/14 09:25	B4L0037	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Arsenic	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Barium	**0.276**	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Beryllium	< 0.00312	0.00312		mg/L	12/01/14 11:02	B4K1082	AG
Boron	**4.87**	0.0156		mg/L	12/01/14 11:02	B4K1082	AG
Cadmium	< 0.00312	0.00312		mg/L	12/01/14 11:02	B4K1082	AG
Chromium	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Cobalt	< 0.0156	0.0156		mg/L	12/01/14 11:02	B4K1082	AG
Copper	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Iron	**20.4**	0.625		mg/L	12/01/14 11:02	B4K1082	AG
Lead	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Manganese	**16.6**	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Nickel	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Selenium	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Silver	< 0.00312	0.00312		mg/L	12/01/14 11:02	B4K1082	AG
Thallium	< 0.0312	0.0312		mg/L	12/01/14 11:02	B4K1082	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	**0.0006**	0.0005		mg/L	12/02/14 15:25	B4L0085	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**23.4**	2.00		mg/L	11/22/14 01:10	B4K0859	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-2
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:25
Matrix: Groundwater
Lab ID: 14K0275-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	11/22/14 01:10	B4K0859	GSB
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/22/14 01:10	B4K0859	GSB
Sulfate	**463**	50.0		mg/L	11/30/14 01:54	B4K1108	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	11/24/14 14:26	B4K0921	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1080**	10.0		mg/L	11/24/14 13:30	B4K0933	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	12/02/14 11:35	B4L0082	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.972	0.972		ug/L	11/25/14 19:05	B4K1025	LP
Atrazine	< 0.972	0.972		ug/L	11/25/14 19:05	B4K1025	LP
Chlordane	< 0.972	0.972		ug/L	11/25/14 19:05	B4K1025	LP
Endrin	< 0.583	0.583		ug/L	11/25/14 19:05	B4K1025	LP
Lindane	< 0.583	0.583		ug/L	11/25/14 19:05	B4K1025	LP
Heptachlor	< 0.583	0.583		ug/L	11/25/14 19:05	B4K1025	LP
Heptachlor epoxide	< 0.583	0.583		ug/L	11/25/14 19:05	B4K1025	LP
Methoxychlor	< 0.583	0.583		ug/L	11/25/14 19:05	B4K1025	LP
Simazine	< 0.972	0.972		ug/L	11/25/14 19:05	B4K1025	LP
Toxaphene	< 2.92	2.92		ug/L	11/25/14 19:05	B4K1025	LP
Surrogate: Decachlorobiphenyl				*Recovery: 72%* *Limits: 30-135*	*11/25/14 19:05*	*B4K1025*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%* *Limits: 44-124*	*11/25/14 19:05*	*B4K1025*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.486	0.486		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1221	< 0.777	0.777		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1232	< 0.972	0.972		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1242	< 0.972	0.972		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1248	< 0.972	0.972		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1254	< 0.777	0.777		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1260	< 0.486	0.486		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1262	< 0.972	0.972		ug/L	11/25/14 23:38	B4K1029	NCH
Aroclor 1268	< 0.486	0.486		ug/L	11/25/14 23:38	B4K1029	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 79%* *Limits: 40-135*	*11/25/14 23:38*	*B4K1029*	*NCH*

Response to 1st RTP
CWLP - 02519

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Project:	List G20 Fourth Quarter 2014	**Report Date:**	12/29/2014
		Collection Date:	11/21/2014 09:25
Work Order:	14K0275	**Matrix:**	Groundwater
		Lab ID:	14K0275-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 48%*	*Limits: 13-133*	*11/25/14 23:38*	*B4K1029*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/03/14 15:37	B4L0164	MNN
Carbofuran	< 2.00	2.00		ug/L		12/03/14 15:37	B4L0164	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.43	1.43		ug/L		12/02/14 00:10	B4K1047	MNN
2,4-D	< 1.43	1.43		ug/L		12/02/14 00:10	B4K1047	MNN
Dinoseb	< 1.43	1.43		ug/L		12/02/14 00:10	B4K1047	MNN
Picloram	< 1.43	1.43		ug/L		12/02/14 00:10	B4K1047	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 57%*	*Limits: 20-138*	*12/02/14 00:10*	*B4K1047*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Benzene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/25/14 19:18	B4K1085	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 19:18	B4K1085	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Dichloromethane	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Styrene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/25/14 19:18	B4K1085	XN
Toluene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 19:18	B4K1085	XN
Trichloroethene	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/14 19:18	B4K1085	XN
Xylenes, Total	< 6.00	6.00		ug/L		11/25/14 19:18	B4K1085	XN
Surrogate: Dibromofluoromethane				*Recovery: 116%*	*Limits: 80-119*	*11/25/14 19:18*	*B4K1085*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 111%*	*Limits: 81-118*	*11/25/14 19:18*	*B4K1085*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*11/25/14 19:18*	*B4K1085*	*XN*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 89-112*	*11/25/14 19:18*	*B4K1085*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 85-114*	*11/25/14 19:18*	*B4K1085*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 99%*	*Limits: 70-120*	*11/25/14 19:18*	*B4K1085*	*XN*

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-2
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:25
Matrix: Groundwater
Lab ID: 14K0275-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		12/01/14 17:06	B4L0162	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		12/01/14 17:06	B4L0162	LP
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.97	4.97		ug/L		11/25/14 18:33	B4K0970	BW
o-Dichlorobenzene	< 4.97	4.97		ug/L		11/25/14 18:33	B4K0970	BW
p-Dichlorobenzene	< 4.97	4.97		ug/L		11/25/14 18:33	B4K0970	BW
Benzo(a)pyrene	< 9.95	9.95		ug/L		11/25/14 18:33	B4K0970	BW
Di(2-ethylhexyl)phthalate	< 9.95	9.95		ug/L		11/25/14 18:33	B4K0970	BW
Hexachlorocyclopentadiene	< 24.9	24.9		ug/L		11/25/14 18:33	B4K0970	BW
Pentachlorophenol	< 99.5	99.5		ug/L		11/25/14 18:33	B4K0970	BW
Surrogate: 2-Fluorophenol				*Recovery: 16%*	*Limits: 4-108*	*11/25/14 18:33*	*B4K0970*	*BW*
Surrogate: Phenol-d5				*Recovery: 6%*	*Limits: 1-101*	*11/25/14 18:33*	*B4K0970*	*BW*
Surrogate: Nitrobenzene-d5				*Recovery: 104%*	*Limits: 23-119*	*11/25/14 18:33*	*B4K0970*	*BW*
Surrogate: 2-Fluorobiphenyl				*Recovery: 108%*	*Limits: 28-124*	*11/25/14 18:33*	*B4K0970*	*BW*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 82%*	*Limits: 11-102*	*11/25/14 18:33*	*B4K0970*	*BW*
Surrogate: 4-Terphenyl-d14				*Recovery: 139%*	*Limits: 79-162*	*11/25/14 18:33*	*B4K0970*	*BW*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.98**	1		pCi/L		12/05/14 00:00		UL
Radium-228	**1**	1		pCi/L		12/22/14 00:00		UL
Summit Environmental Technologies, Subcontract								
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 2.2	2.2		ug/L		12/11/14 00:00		SUMMI
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 5.0	5		ug/L		12/04/14 00:00		SUMMI

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-3
Report Date: 12/29/2014
Collection Date: 11/21/2014 08:20
Matrix: Groundwater
Lab ID: 14K0275-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**516.55**	0.00		No unit	11/21/14 08:20	B4L0037	PB
Depth to water (feet below land surface)	**5.28**	0.00		No unit	11/21/14 08:20	B4L0037	PB
Depth to water (feet from measuring point)	**6.98**	0.00		No unit	11/21/14 08:20	B4L0037	PB
Elevation of groundwater surface (Feet)	**528.62**	0.00		No unit	11/21/14 08:20	B4L0037	PB
Method: SM2510B							
Specific Conductance	**1270**	0.00		uS/cm	11/21/14 08:20	B4L0037	PB
Method: SM2550-B							
Temperature	**52.8**	1.00		°F	11/21/14 08:20	B4L0037	PB
Method: SM4500-H							
pH	**6.63**	0.05		pH Units	11/21/14 08:20	B4L0037	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Arsenic	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Barium	**0.0939**	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Beryllium	< 0.00312	0.00312		mg/L	12/01/14 11:07	B4K1082	AG
Boron	**19.5**	0.0156		mg/L	12/01/14 11:07	B4K1082	AG
Cadmium	< 0.00312	0.00312		mg/L	12/01/14 11:07	B4K1082	AG
Chromium	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Cobalt	< 0.0156	0.0156		mg/L	12/01/14 11:07	B4K1082	AG
Copper	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Iron	**14.3**	0.625		mg/L	12/01/14 11:07	B4K1082	AG
Lead	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Manganese	**8.24**	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Nickel	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Selenium	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Silver	< 0.00312	0.00312		mg/L	12/01/14 11:07	B4K1082	AG
Thallium	< 0.0312	0.0312		mg/L	12/01/14 11:07	B4K1082	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.0005	0.0005		mg/L	12/02/14 15:08	B4L0085	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**39.1**	2.00		mg/L	11/21/14 17:36	B4K0859	GSB

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-3
Report Date: 12/29/2014
Collection Date: 11/21/2014 08:20
Matrix: Groundwater
Lab ID: 14K0275-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	11/21/14 17:36	B4K0859	GSB
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/21/14 17:36	B4K0859	GSB
Sulfate	**362**	50.0		mg/L	11/30/14 08:12	B4K1109	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	11/24/14 14:26	B4K0921	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**974**	10.0		mg/L	11/24/14 13:30	B4K0933	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	12/02/14 11:35	B4L0082	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.975	0.975		ug/L	11/25/14 19:51	B4K1025	LP
Atrazine	< 0.975	0.975		ug/L	11/25/14 19:51	B4K1025	LP
Chlordane	< 0.975	0.975		ug/L	11/25/14 19:51	B4K1025	LP
Endrin	< 0.585	0.585		ug/L	11/25/14 19:51	B4K1025	LP
Lindane	< 0.585	0.585		ug/L	11/25/14 19:51	B4K1025	LP
Heptachlor	< 0.585	0.585		ug/L	11/25/14 19:51	B4K1025	LP
Heptachlor epoxide	< 0.585	0.585		ug/L	11/25/14 19:51	B4K1025	LP
Methoxychlor	< 0.585	0.585		ug/L	11/25/14 19:51	B4K1025	LP
Simazine	< 0.975	0.975		ug/L	11/25/14 19:51	B4K1025	LP
Toxaphene	< 2.92	2.92		ug/L	11/25/14 19:51	B4K1025	LP
Surrogate: Decachlorobiphenyl				*Recovery: 75%* *Limits: 30-135*	*11/25/14 19:51*	*B4K1025*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 42%* *Limits: 44-124*	*11/25/14 19:51*	*B4K1025*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.487	0.487		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1221	< 0.780	0.780		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1232	< 0.975	0.975		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1242	< 0.975	0.975		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1248	< 0.975	0.975		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1254	< 0.780	0.780		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1260	< 0.487	0.487		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1262	< 0.975	0.975		ug/L	11/26/14 00:05	B4K1029	NCH
Aroclor 1268	< 0.487	0.487		ug/L	11/26/14 00:05	B4K1029	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 65%* *Limits: 40-135*	*11/26/14 00:05*	*B4K1029*	*NCH*

Response to 1st RTP
CWLP - 02523

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-3
Report Date: 12/29/2014
Collection Date: 11/21/2014 08:20
Matrix: Groundwater
Lab ID: 14K0275-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 34%*	*Limits: 13-133*	*11/26/14 00:05*	*B4K1029*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/03/14 16:13	B4L0164	MNN
Carbofuran	< 2.00	2.00		ug/L		12/03/14 16:13	B4L0164	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.44	1.44		ug/L		12/02/14 00:52	B4K1047	MNN
2,4-D	< 1.44	1.44		ug/L		12/02/14 00:52	B4K1047	MNN
Dinoseb	< 1.44	1.44		ug/L		12/02/14 00:52	B4K1047	MNN
Picloram	< 1.44	1.44		ug/L		12/02/14 00:52	B4K1047	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 55%*	*Limits: 20-136*	*12/02/14 00:52*	*B4K1047*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Benzene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/25/14 19:51	B4K1085	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 19:51	B4K1085	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Dichloromethane	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Styrene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/25/14 19:51	B4K1085	XN
Toluene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 19:51	B4K1085	XN
Trichloroethene	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/14 19:51	B4K1085	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/25/14 19:51	B4K1085	XN
Surrogate: Dibromofluoromethane				*Recovery: 117%*	*Limits: 80-119*	*11/25/14 19:51*	*B4K1085*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 114%*	*Limits: 81-118*	*11/25/14 19:51*	*B4K1085*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*11/25/14 19:51*	*B4K1085*	*XN*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 89-112*	*11/25/14 19:51*	*B4K1085*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 108%*	*Limits: 85-114*	*11/25/14 19:51*	*B4K1085*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 98%*	*Limits: 70-120*	*11/25/14 19:51*	*B4K1085*	*XN*

Response to 1st RTP
CWLP - 02524

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-3
Report Date: 12/29/2014
Collection Date: 11/21/2014 08:20
Matrix: Groundwater
Lab ID: 14K0275-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		12/01/14 17:37	B4L0162	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		12/01/14 17:37	B4L0162	LP
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.95	4.95		ug/L		11/26/14 18:03	B4K0970	SJ
o-Dichlorobenzene	< 4.95	4.95		ug/L		11/26/14 18:03	B4K0970	SJ
p-Dichlorobenzene	< 4.95	4.95		ug/L		11/26/14 18:03	B4K0970	SJ
Benzo(a)pyrene	< 9.91	9.91		ug/L		11/26/14 18:03	B4K0970	SJ
Di(2-ethylhexyl)phthalate	< 9.91	9.91		ug/L		11/26/14 18:03	B4K0970	SJ
Hexachlorocyclopentadiene	< 24.8	24.8		ug/L		11/26/14 18:03	B4K0970	SJ
Pentachlorophenol	< 99.1	99.1		ug/L		11/26/14 18:03	B4K0970	SJ
Surrogate: 2-Fluorophenol				*Recovery: 14%*	*Limits: 4-108*	*11/26/14 18:03*	*B4K0970*	*SJ*
Surrogate: Phenol-d5				*Recovery: 8%*	*Limits: 1-101*	*11/26/14 18:03*	*B4K0970*	*SJ*
Surrogate: Nitrobenzene-d5				*Recovery: 62%*	*Limits: 23-119*	*11/26/14 18:03*	*B4K0970*	*SJ*
Surrogate: 2-Fluorobiphenyl				*Recovery: 69%*	*Limits: 28-124*	*11/26/14 18:03*	*B4K0970*	*SJ*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 49%*	*Limits: 11-102*	*11/26/14 18:03*	*B4K0970*	*SJ*
Surrogate: 4-Terphenyl-d14				*Recovery: 96%*	*Limits: 79-162*	*11/26/14 18:03*	*B4K0970*	*SJ*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.42**	1		pCi/L		12/05/14 00:00		UL
Radium-228	**0.3**	1		pCi/L		12/22/14 00:00		UL
Summit Environmental Technologies, Subcontract								
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 2.2	2.2		ug/L		12/11/14 00:00		SUMMI
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 5.0	5		ug/L		12/04/14 00:00		SUMMI

Response to 1st RTP
CWLP - 02525

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-4
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:15
Matrix: Groundwater
Lab ID: 14K0275-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**491.62**	0.00		No unit	11/21/14 09:15	B4L0037	SDS
Depth to water (feet below land surface)	**6.94**	0.00		No unit	11/21/14 09:15	B4L0037	SDS
Depth to water (feet from measuring point)	**12.24**	0.00		No unit	11/21/14 09:15	B4L0037	SDS
Elevation of groundwater surface (Feet)	**542.36**	0.00		No unit	11/21/14 09:15	B4L0037	SDS
Method: SM2510B							
Specific Conductance	**837**	0.00		uS/cm	11/21/14 09:15	B4L0037	SDS
Method: SM2550-B							
Temperature	**58.8**	1.00		°F	11/21/14 09:15	B4L0037	SDS
Method: SM4500-H							
pH	**7.14**	0.05		pH Units	11/21/14 09:15	B4L0037	SDS
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Arsenic	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Barium	**0.351**	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Beryllium	< 0.00312	0.00312		mg/L	12/01/14 11:09	B4K1082	AG
Boron	**0.103**	0.0156		mg/L	12/01/14 11:09	B4K1082	AG
Cadmium	< 0.00312	0.00312		mg/L	12/01/14 11:09	B4K1082	AG
Chromium	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Cobalt	< 0.0156	0.0156		mg/L	12/01/14 11:09	B4K1082	AG
Copper	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Iron	**12.8**	0.625		mg/L	12/01/14 11:09	B4K1082	AG
Lead	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Manganese	**0.163**	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Nickel	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Selenium	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Silver	< 0.00312	0.00312		mg/L	12/01/14 11:09	B4K1082	AG
Thallium	< 0.0312	0.0312		mg/L	12/01/14 11:09	B4K1082	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.0005	0.0005		mg/L	12/02/14 15:09	B4L0085	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**11.0**	2.00		mg/L	11/21/14 21:23	B4K0859	GSB

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-4
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:15
Matrix: Groundwater
Lab ID: 14K0275-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	11/21/14 21:23	B4K0859	GSB
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/21/14 21:23	B4K0859	GSB
Sulfate	< 5.00	5.00		mg/L	11/21/14 21:23	B4K0859	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	11/24/14 14:26	B4K0921	JN1
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**492**	10.0		mg/L	11/26/14 09:25	B4K1066	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	12/02/14 11:35	B4L0082	JN1
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.937	0.937		ug/L	11/25/14 20:38	B4K1025	LP
Atrazine	< 0.937	0.937		ug/L	11/25/14 20:38	B4K1025	LP
Chlordane	< 0.937	0.937		ug/L	11/25/14 20:38	B4K1025	LP
Endrin	< 0.562	0.562		ug/L	11/25/14 20:38	B4K1025	LP
Lindane	< 0.562	0.562		ug/L	11/25/14 20:38	B4K1025	LP
Heptachlor	< 0.562	0.562		ug/L	11/25/14 20:38	B4K1025	LP
Heptachlor epoxide	< 0.562	0.562		ug/L	11/25/14 20:38	B4K1025	LP
Methoxychlor	< 0.562	0.562		ug/L	11/25/14 20:38	B4K1025	LP
Simazine	< 0.937	0.937		ug/L	11/25/14 20:38	B4K1025	LP
Toxaphene	< 2.81	2.81		ug/L	11/25/14 20:38	B4K1025	LP
Surrogate: Decachlorobiphenyl				*Recovery: 95%*	*Limits: 30-135*	*11/25/14 20:38*	*B4K1025*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 44-124*	*11/25/14 20:38*	*B4K1025*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.468	0.468		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1221	< 0.749	0.749		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1232	< 0.937	0.937		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1242	< 0.937	0.937		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1248	< 0.937	0.937		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1254	< 0.749	0.749		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1260	< 0.468	0.468		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1262	< 0.937	0.937		ug/L	11/26/14 00:32	B4K1029	NCH
Aroclor 1268	< 0.468	0.468		ug/L	11/26/14 00:32	B4K1029	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 69%*	*Limits: 40-135*	*11/26/14 00:32*	*B4K1029*	*NCH*

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-4
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:15
Matrix: Groundwater
Lab ID: 14K0275-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 41%*	*Limits: 13-133*	*11/26/14 00:32*	*B4K1029*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/03/14 16:49	B4L0164	MNN
Carbofuran	< 2.00	2.00		ug/L		12/03/14 16:49	B4L0164	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		12/02/14 01:34	B4K1047	MNN
2,4-D	< 1.48	1.48		ug/L		12/02/14 01:34	B4K1047	MNN
Dinoseb	< 1.48	1.48		ug/L		12/02/14 01:34	B4K1047	MNN
Picloram	< 1.48	1.48		ug/L		12/02/14 01:34	B4K1047	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 56%*	*Limits: 20-138*	*12/02/14 01:34*	*B4K1047*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Benzene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/25/14 20:24	B4K1085	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 20:24	B4K1085	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Dichloromethane	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Styrene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/25/14 20:24	B4K1085	XN
Toluene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 20:24	B4K1085	XN
Trichloroethene	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/14 20:24	B4K1085	XN
Xylenes, Total	< 6.00	6.00		ug/L		11/25/14 20:24	B4K1085	XN
Surrogate: Dibromofluoromethane				*Recovery: 119%*	*Limits: 80-119*	*11/25/14 20:24*	*B4K1085*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 117%*	*Limits: 81-118*	*11/25/14 20:24*	*B4K1085*	*XN*
Surrogate: Fluorobenzene				*Recovery: 102%*	*Limits: 80-116*	*11/25/14 20:24*	*B4K1085*	*XN*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 89-112*	*11/25/14 20:24*	*B4K1085*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 109%*	*Limits: 85-114*	*11/25/14 20:24*	*B4K1085*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 98%*	*Limits: 70-120*	*11/25/14 20:24*	*B4K1085*	*XN*

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-4
Report Date: 12/29/2014
Collection Date: 11/21/2014 09:15
Matrix: Groundwater
Lab ID: 14K0275-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		12/01/14 18:08	B4L0162	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		12/01/14 18:08	B4L0162	LP
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.96	4.96		ug/L		12/01/14 18:22	B4K1106	BW
o-Dichlorobenzene	< 4.96	4.96		ug/L		12/01/14 18:22	B4K1106	BW
p-Dichlorobenzene	< 4.96	4.96		ug/L		12/01/14 18:22	B4K1106	BW
Benzo(a)pyrene	< 9.92	9.92		ug/L		12/01/14 18:22	B4K1106	BW
Di(2-ethylhexyl)phthalate	< 9.92	9.92		ug/L		12/01/14 18:22	B4K1106	BW
Hexachlorocyclopentadiene	< 24.8	24.8		ug/L		12/01/14 18:22	B4K1106	BW
Pentachlorophenol	< 99.2	99.2		ug/L		12/01/14 18:22	B4K1106	BW
Surrogate: 2-Fluorophenol				*Recovery: 28%*	*Limits: 4-108*	*12/01/14 18:22*	*B4K1106*	*BW*
Surrogate: Phenol-d5				*Recovery: 18%*	*Limits: 1-101*	*12/01/14 18:22*	*B4K1106*	*BW*
Surrogate: Nitrobenzene-d5				*Recovery: 51%*	*Limits: 23-119*	*12/01/14 18:22*	*B4K1106*	*BW*
Surrogate: 2-Fluorobiphenyl				*Recovery: 76%*	*Limits: 28-124*	*12/01/14 18:22*	*B4K1106*	*BW*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 37%*	*Limits: 11-102*	*12/01/14 18:22*	*B4K1106*	*BW*
Surrogate: 4-Terphenyl-d14				*Recovery: 115%*	*Limits: 79-162*	*12/01/14 18:22*	*B4K1106*	*BW*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**1.2**	1		pCi/L		12/05/14 00:00		UL
Radium-228	**1**	1		pCi/L		12/22/14 00:00		UL
Summit Environmental Technologies, Subcontract								
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 2.2	2.2		ug/L		12/11/14 00:00		SUMMI
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 5.0	5		ug/L		12/04/14 00:00		SUMMI

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-5
Report Date: 12/29/2014
Collection Date: 11/21/2014 11:45
Matrix: Groundwater
Lab ID: 14K0275-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**552.51**	0.00		No unit	11/21/14 11:45	B4L0037	FO1
Depth to water (feet below land surface)	**12.50**	0.00		No unit	11/21/14 11:45	B4L0037	FO1
Depth to water (feet from measuring point)	**14.80**	0.00		No unit	11/21/14 11:45	B4L0037	FO1
Elevation of groundwater surface (Feet)	**569.10**	0.00		No unit	11/21/14 11:45	B4L0037	FO1
Method: SM2510B							
Specific Conductance	**639**	0.00		uS/cm	11/21/14 11:45	B4L0037	FO1
Method: SM2550-B							
Temperature	**53.5**	1.00		°F	11/21/14 11:45	B4L0037	FO1
Method: SM4500-H							
pH	**7.31**	0.05		pH Units	11/21/14 11:45	B4L0037	FO1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Arsenic	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Barium	**0.193**	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Beryllium	< 0.00312	0.00312		mg/L	12/01/14 11:11	B4K1082	AG
Boron	**0.0546**	0.0156		mg/L	12/01/14 11:11	B4K1082	AG
Cadmium	< 0.00312	0.00312		mg/L	12/01/14 11:11	B4K1082	AG
Chromium	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Cobalt	< 0.0156	0.0156		mg/L	12/01/14 11:11	B4K1082	AG
Copper	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Iron	**27.8**	0.625		mg/L	12/01/14 11:11	B4K1082	AG
Lead	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Manganese	**0.631**	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Nickel	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Selenium	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Silver	< 0.00312	0.00312		mg/L	12/01/14 11:11	B4K1082	AG
Thallium	< 0.0312	0.0312		mg/L	12/01/14 11:11	B4K1082	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.0005	0.0005		mg/L	12/02/14 15:19	B4L0085	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**4.03**	2.00		mg/L	11/22/14 17:33	B4K0874	GSB

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-5
Report Date: 12/29/2014
Collection Date: 11/21/2014 11:45
Matrix: Groundwater
Lab ID: 14K0275-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Fluoride	< 0.500	0.500		mg/L		11/22/14 17:33	B4K0874	GSB
Nitrogen, Nitrate	**0.663**	0.500		mg/L		11/22/14 17:33	B4K0874	GSB
Sulfate	**68.7**	5.00		mg/L		11/22/14 17:33	B4K0874	GSB
Wet Chemistry								
Method: E420.1 Rev.1978 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/24/14 14:26	B4K0921	JN1
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**446**	10.0		mg/L		11/26/14 09:25	B4K1066	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		12/02/14 11:35	B4L0082	JN1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.977	0.977		ug/L		11/25/14 21:24	B4K1025	LP
Atrazine	< 0.977	0.977		ug/L		11/25/14 21:24	B4K1025	LP
Chlordane	< 0.977	0.977		ug/L		11/25/14 21:24	B4K1025	LP
Endrin	< 0.586	0.586		ug/L		11/25/14 21:24	B4K1025	LP
Lindane	< 0.586	0.586		ug/L		11/25/14 21:24	B4K1025	LP
Heptachlor	< 0.586	0.586		ug/L		11/25/14 21:24	B4K1025	LP
Heptachlor epoxide	< 0.586	0.586		ug/L		11/25/14 21:24	B4K1025	LP
Methoxychlor	< 0.586	0.586		ug/L		11/25/14 21:24	B4K1025	LP
Simazine	< 0.977	0.977		ug/L		11/25/14 21:24	B4K1025	LP
Toxaphene	< 2.93	2.93		ug/L		11/25/14 21:24	B4K1025	LP
Surrogate: Decachlorobiphenyl				*Recovery: 102%*	*Limits: 30-135*	*11/25/14 21:24*	*B4K1025*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 57%*	*Limits: 44-124*	*11/25/14 21:24*	*B4K1025*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.488	0.488		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1221	< 0.781	0.781		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1232	< 0.977	0.977		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1242	< 0.977	0.977		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1248	< 0.977	0.977		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1254	< 0.781	0.781		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1260	< 0.488	0.488		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1262	< 0.977	0.977		ug/L		11/26/14 00:59	B4K1029	NCH
Aroclor 1268	< 0.488	0.488		ug/L		11/26/14 00:59	B4K1029	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 40-135*	*11/26/14 00:59*	*B4K1029*	*NCH*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-5
Report Date: 12/29/2014
Collection Date: 11/21/2014 11:45
Matrix: Groundwater
Lab ID: 14K0275-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 13-133*	*11/26/14 00:59*	*B4K1029*	*NCH*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/03/14 17:25	B4L0164	MNN
Carbofuran	< 2.00	2.00		ug/L		12/03/14 17:25	B4L0164	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.47	1.47		ug/L		12/02/14 02:17	B4K1047	MNN
2,4-D	< 1.47	1.47		ug/L		12/02/14 02:17	B4K1047	MNN
Dinoseb	< 1.47	1.47		ug/L		12/02/14 02:17	B4K1047	MNN
Picloram	< 1.47	1.47		ug/L		12/02/14 02:17	B4K1047	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 61%*	*Limits: 20-138*	*12/02/14 02:17*	*B4K1047*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Benzene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/25/14 02:43	B4L0127	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 02:43	B4L0127	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Dichloromethane	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Styrene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/25/14 02:43	B4L0127	XN
Toluene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/25/14 02:43	B4L0127	XN
Trichloroethene	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/14 02:43	B4L0127	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/25/14 02:43	B4L0127	XN
Surrogate: Dibromofluoromethane				*Recovery: 114%*	*Limits: 80-119*	*11/25/14 02:43*	*B4L0127*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 107%*	*Limits: 81-118*	*11/25/14 02:43*	*B4L0127*	*XN*
Surrogate: Fluorobenzene				*Recovery: 97%*	*Limits: 80-116*	*11/25/14 02:43*	*B4L0127*	*XN*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 89-112*	*11/25/14 02:43*	*B4L0127*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 108%*	*Limits: 85-114*	*11/25/14 02:43*	*B4L0127*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 102%*	*Limits: 70-120*	*11/25/14 02:43*	*B4L0127*	*XN*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Client Sample ID: AP-5
Report Date: 12/29/2014
Collection Date: 11/21/2014 11:45
Matrix: Groundwater
Lab ID: 14K0275-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		12/01/14 18:40	B4L0162	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		12/01/14 18:40	B4L0162	LP
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.96	4.96		ug/L		12/01/14 19:07	B4K1106	BW
o-Dichlorobenzene	< 4.96	4.96		ug/L		12/01/14 19:07	B4K1106	BW
p-Dichlorobenzene	< 4.96	4.96		ug/L		12/01/14 19:07	B4K1106	BW
Benzo(a)pyrene	< 9.91	9.91		ug/L		12/01/14 19:07	B4K1106	BW
Di(2-ethylhexyl)phthalate	< 9.91	9.91		ug/L		12/01/14 19:07	B4K1106	BW
Hexachlorocyclopentadiene	< 24.8	24.8		ug/L		12/01/14 19:07	B4K1106	BW
Pentachlorophenol	< 99.1	99.1		ug/L		12/01/14 19:07	B4K1106	BW
Surrogate: 2-Fluorophenol				*Recovery: 24%*	*Limits: 4-108*	*12/01/14 19:07*	*B4K1106*	*BW*
Surrogate: Phenol-d5				*Recovery: 13%*	*Limits: 1-101*	*12/01/14 19:07*	*B4K1106*	*BW*
Surrogate: Nitrobenzene-d5				*Recovery: 53%*	*Limits: 23-119*	*12/01/14 19:07*	*B4K1106*	*BW*
Surrogate: 2-Fluorobiphenyl				*Recovery: 74%*	*Limits: 28-124*	*12/01/14 19:07*	*B4K1106*	*BW*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 34%*	*Limits: 11-102*	*12/01/14 19:07*	*B4K1106*	*BW*
Surrogate: 4-Terphenyl-d14				*Recovery: 85%*	*Limits: 79-162*	*12/01/14 19:07*	*B4K1106*	*BW*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**1.3**	1		pCi/L		12/05/14 00:00		UL
Radium-228	**0.84**	1		pCi/L		12/22/14 00:00		UL
Summit Environmental Technologies, Subcontract								
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 2.2	2.2		ug/L		12/11/14 00:00		SUMMI
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 5.0	5		ug/L		12/04/14 00:00		SUMMI

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Dates Report

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
14K0275-01	AW-3	11/21/14	Groundwater	Semivolatile Organic Compounds by GC/FID		12/11/14 00:00	12/11/14 00:00	'[none]'	
				Subcontracted Analyses		12/03/14 00:00	12/22/14 00:00		
				Semivolatile Organic Compounds by GC/MS		12/04/14 00:00	12/04/14 00:00		
				Subcontracted Analyses		12/03/14 00:00	12/05/14 00:00		
				Fluoride, Anions by Ion Chromatography		11/21/14 10:57	11/21/14 18:14	B4K0859	S4K0455
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/21/14 10:57	11/21/14 18:14		
				Sulfate (SO4), Anions by Ion Chromatography		11/21/14 10:57	11/21/14 18:14		
				Chloride, Anions by Ion Chromatography		11/21/14 10:57	11/21/14 18:14		
				Phenols, Total		11/24/14 08:30	11/24/14 14:26	B4K0921	S4K0466
				Solids, Total Dissolved (TDS)		11/24/14 13:30	11/24/14 13:30	B4K0933	
				Semivolatile Organic Compounds by GC/MS		11/24/14 14:00	11/25/14 17:02	B4K0970	S4K0509
				Mercury, Total CCVA		11/25/14 09:00	11/25/14 16:01	B4K1010	S4K0502
				Organochlorine Pesticides by GC/ECD		11/25/14 13:00	11/25/14 21:24	B4K1025	S4L0023
				Polychlorinated Biphenyls by GC/ECD		11/25/14 13:00	11/25/14 22:16	B4K1029	S4K0515
				Herbicides by HPLC		11/25/14 16:00	12/01/14 22:46	B4K1047	S4L0011
				Antimony, Total ICP-MS		11/26/14 11:30	12/01/14 10:58	B4K1082	S4K0527
				Nickel, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Selenium, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Lead, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Arsenic, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Thallium, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Silver, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Manganese, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Boron, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Barium, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Beryllium, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Cobalt, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Chromium, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Copper, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Iron, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Cadmium, Total ICP-MS		11/26/14 11:30	12/01/14 10:58		
				Volatile Organic Compounds by GC/MS		11/25/14 10:00	11/25/14 18:46	B4K1085	S4K0520
				Groundwater Parameters		11/21/14 08:35	11/21/14 08:35	B4L0037	
				Conductance, Field		11/21/14 08:35	11/21/14 08:35		
				Temperature in F, Field		11/21/14 08:35	11/21/14 08:35		
				pH, Tested On Site		11/21/14 08:35	11/21/14 08:35		
				Cyanide, Total		12/02/14 08:00	12/02/14 11:27	B4L0082	S4L0035
				EPA 504.1 DBCP/EDB		12/01/14 07:00	12/01/14 15:00	B4L0162	S4L0070
				EPA 531.1 Carbamates		12/03/14 12:08	12/03/14 14:14	B4L0164	S4L0076
14K0275-02	AP-1	11/21/14		Semivolatile Organic Compounds by GC/MS		12/04/14 00:00	12/04/14 00:00	'[none]'	

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Dates Report
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
14K0275-02	AP-1	11/21/14	Groundwater	Subcontracted Analyses		12/03/14 00:00	12/22/14 00:00	'[none]'	
				Subcontracted Analyses		12/03/14 00:00	12/05/14 00:00		
				Semivolatile Organic Compounds by GC/FID		12/11/14 00:00	12/11/14 00:00		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/22/14 08:32	11/22/14 19:26	B4K0874	S4K0471
				Fluoride, Anions by Ion Chromatography		11/22/14 08:32	11/22/14 19:26		
				Chloride, Anions by Ion Chromatography		11/22/14 08:32	11/22/14 19:26		
				Phenols, Total		11/24/14 08:30	11/24/14 14:26	B4K0921	S4K0486
				Solids, Total Dissolved (TDS)		11/24/14 13:30	11/24/14 13:30	B4K0933	
				Semivolatile Organic Compounds by GC/MS		11/24/14 14:00	11/25/14 17:48	B4K0970	S4K0509
				Mercury, Total CCVA		11/25/14 09:00	11/25/14 16:05	B4K1010	S4K0502
				Organochlorine Pesticides by GC/ECD		11/25/14 13:00	11/25/14 22:11	B4K1025	S4L0023
				Polychlorinated Biphenyls by GC/ECD		11/25/14 13:00	11/25/14 22:43	B4K1029	S4K0515
				Herbicides by HPLC		11/25/14 16:00	12/01/14 23:28	B4K1047	S4L0011
				Lead, Total ICP-MS		11/26/14 11:30	12/01/14 11:00	B4K1082	S4K0527
				Arsenic, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Thallium, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Silver, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Barium, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Boron, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Antimony, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Nickel, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Manganese, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Iron, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Copper, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Chromium, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Cobalt, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Cadmium, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Beryllium, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Selenium, Total ICP-MS		11/26/14 11:30	12/01/14 11:00		
				Sulfate (SO4), Anions by Ion Chromatography		11/29/14 05:34	11/30/14 01:16	B4K1108	S4L0024
				Conductance, Field		11/21/14 12:15	11/21/14 12:15	B4L0037	
				Groundwater Parameters		11/21/14 12:15	11/21/14 12:15		
				pH, Tested On Site		11/21/14 12:15	11/21/14 12:15		
				Temperature in F, Field		11/21/14 12:15	11/21/14 12:15		
				Cyanide, Total		12/02/14 08:00	12/02/14 11:27	B4L0082	S4L0035
				Volatile Organic Compounds by GC/MS		11/24/14 14:36	11/25/14 03:15	B4L0127	S4L0046
				EPA 504.1 DBCP/EDB		12/01/14 07:00	12/01/14 16:34	B4L0162	S4L0070
				EPA 531.1 Carbamates		12/03/14 12:08	12/03/14 14:52	B4L0164	S4L0076
14K0275-03	AP-2	11/21/14		Subcontracted Analyses		12/03/14 00:00	12/05/14 00:00	'[none]'	
				Subcontracted Analyses		12/03/14 00:00	12/22/14 00:00		
				Semivolatile Organic Compounds by GC/MS		12/04/14 00:00	12/04/14 00:00		

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
14K0275-03	AP-2	11/21/14	Groundwater	Semivolatile Organic Compounds by GC/FID		12/11/14 00:00	12/11/14 00:00	'[none]'	
				Chloride, Anions by Ion Chromatography		11/21/14 10:57	11/22/14 01:10	B4K0859	S4K0455
				Fluoride, Anions by Ion Chromatography		11/21/14 10:57	11/22/14 01:10		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/21/14 10:57	11/22/14 01:10		
				Phenols, Total		11/24/14 08:30	11/24/14 14:26	B4K0921	S4K0466
				Solids, Total Dissolved (TDS)		11/24/14 13:30	11/24/14 13:30	B4K0933	
				Semivolatile Organic Compounds by GC/MS		11/24/14 14:00	11/25/14 18:33	B4K0970	S4K0509
				Organochlorine Pesticides by GC/ECD		11/25/14 13:00	11/25/14 19:05	B4K1025	S4L0043
				Polychlorinated Biphenyls by GC/ECD		11/25/14 13:00	11/25/14 23:38	B4K1029	S4K0515
				Herbicides by HPLC		11/25/14 16:00	12/02/14 00:10	B4K1047	S4L0011
				Cobalt, Total ICP-MS		11/26/14 11:30	12/01/14 11:02	B4K1082	S4K0527
				Thallium, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Selenium, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Antimony, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Lead, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Nickel, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Manganese, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Iron, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Copper, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Chromium, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Cadmium, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Beryllium, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Barium, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Arsenic, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Silver, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Boron, Total ICP-MS		11/26/14 11:30	12/01/14 11:02		
				Volatile Organic Compounds by GC/MS		11/25/14 10:00	11/25/14 19:18	B4K1085	S4K0520
				Sulfate (SO4), Anions by Ion Chromatography		11/29/14 05:34	11/30/14 01:54	B4K1108	S4L0024
				Conductance, Field		11/21/14 09:25	11/21/14 09:25	B4L0037	
				Groundwater Parameters		11/21/14 09:25	11/21/14 09:25		
				pH, Tested On Site		11/21/14 09:25	11/21/14 09:25		
				Temperature in F, Field		11/21/14 09:25	11/21/14 09:25		
				Cyanide, Total		12/02/14 08:00	12/02/14 11:35	B4L0082	S4L0035
				Mercury, Total CCVA		12/02/14 09:59	12/02/14 15:25	B4L0085	S4L0055
				EPA 504.1 DBCP/EDB		12/01/14 07:00	12/01/14 17:06	B4L0162	S4L0070
				EPA 531.1 Carbamates		12/03/14 12:08	12/03/14 15:37	B4L0164	S4L0076
14K0275-04	AP-3	11/21/14		Semivolatile Organic Compounds by GC/MS		12/04/14 00:00	12/04/14 00:00	'[none]'	
				Subcontracted Analyses		12/03/14 00:00	12/22/14 00:00		
				Semivolatile Organic Compounds by GC/FID		12/11/14 00:00	12/11/14 00:00		
				Subcontracted Analyses		12/03/14 00:00	12/05/14 00:00		

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Dates Report
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
14K0275-04	AP-3	11/21/14	Groundwater	Fluoride, Anions by Ion Chromatography		11/21/14 10:57	11/21/14 17:36	B4K0859	S4K0455
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/21/14 10:57	11/21/14 17:36		
				Chloride, Anions by Ion Chromatography		11/21/14 10:57	11/21/14 17:36		
				Phenols, Total		11/24/14 08:30	11/24/14 14:26	B4K0921	S4K0466
				Solids, Total Dissolved (TDS)		11/24/14 13:30	11/24/14 13:30	B4K0933	
				Semivolatile Organic Compounds by GC/MS		11/25/14 11:00	11/26/14 18:03	B4K0970	S4K0510
				Organochlorine Pesticides by GC/ECD		11/25/14 13:00	11/25/14 19:51	B4K1025	S4L0043
				Polychlorinated Biphenyls by GC/ECD		11/25/14 13:00	11/26/14 00:05	B4K1029	S4K0515
				Herbicides by HPLC		11/25/14 16:00	12/02/14 00:52	B4K1047	S4L0011
				Cobalt, Total ICP-MS		11/26/14 11:30	12/01/14 11:07	B4K1082	S4K0527
				Thallium, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Selenium, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Antimony, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Lead, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Nickel, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Manganese, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Iron, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Chromium, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Cadmium, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Beryllium, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Barium, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Boron, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Arsenic, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Silver, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Copper, Total ICP-MS		11/26/14 11:30	12/01/14 11:07		
				Volatile Organic Compounds by GC/MS		11/25/14 10:00	11/25/14 19:51	B4K1085	S4K0520
				Sulfate (SO4), Anions by Ion Chromatography		11/30/14 03:45	11/30/14 08:12	B4K1109	S4L0025
				Temperature in F, Field		11/21/14 08:20	11/21/14 08:20	B4L0037	
				Conductance, Field		11/21/14 08:20	11/21/14 08:20		
				pH, Tested On Site		11/21/14 08:20	11/21/14 08:20		
				Groundwater Parameters		11/21/14 08:20	11/21/14 08:20		
				Cyanide, Total		12/02/14 08:00	12/02/14 11:35	B4L0082	S4L0035
				Mercury, Total CCVA		12/02/14 09:59	12/02/14 15:08	B4L0085	S4L0055
				EPA 504.1 DBCP/EDB		12/01/14 07:00	12/01/14 17:37	B4L0162	S4L0070
				EPA 531.1 Carbamates		12/03/14 12:08	12/03/14 16:13	B4L0164	S4L0076
14K0275-05	AP-4	11/21/14		Semivolatile Organic Compounds by GC/MS		12/04/14 00:00	12/04/14 00:00	'[none]'	
				Subcontracted Analyses		12/03/14 00:00	12/05/14 00:00		
				Subcontracted Analyses		12/03/14 00:00	12/22/14 00:00		
				Semivolatile Organic Compounds by GC/FID		12/11/14 00:00	12/11/14 00:00		
				Sulfate (SO4), Anions by Ion Chromatography		11/21/14 10:57	11/21/14 21:23	B4K0859	S4K0455

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Dates Report
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
14K0275-05	AP-4	11/21/14	Groundwater	Nitrogen, Nitrate (NO3) as N, Anions by IC		11/21/14 10:57	11/21/14 21:23	B4K0859	S4K0455
				Fluoride, Anions by Ion Chromatography		11/21/14 10:57	11/21/14 21:23		
				Chloride, Anions by Ion Chromatography		11/21/14 10:57	11/21/14 21:23		
				Phenols, Total		11/24/14 08:30	11/24/14 14:26	B4K0921	S4K0466
				Organochlorine Pesticides by GC/ECD		11/25/14 13:00	11/25/14 20:38	B4K1025	S4L0043
				Polychlorinated Biphenyls by GC/ECD		11/25/14 13:00	11/26/14 00:32	B4K1029	S4K0515
				Herbicides by HPLC		11/25/14 16:00	12/02/14 01:34	B4K1047	S4L0011
				Solids, Total Dissolved (TDS)		11/26/14 09:25	11/26/14 09:25	B4K1066	
				Boron, Total ICP-MS		11/26/14 11:30	12/01/14 11:09	B4K1082	S4K0527
				Silver, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Arsenic, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Barium, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Thallium, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Selenium, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Antimony, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Lead, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Cadmium, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Manganese, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Iron, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Copper, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Chromium, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Cobalt, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Nickel, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Beryllium, Total ICP-MS		11/26/14 11:30	12/01/14 11:09		
				Volatile Organic Compounds by GC/MS		11/25/14 10:00	11/25/14 20:24	B4K1085	S4K0520
				Semivolatile Organic Compounds by GC/MS		11/26/14 10:00	12/01/14 18:22	B4K1106	S4L0044
				Temperature in F, Field		11/21/14 09:15	11/21/14 09:15	B4L0037	
				Conductance, Field		11/21/14 09:15	11/21/14 09:15		
				Groundwater Parameters		11/21/14 09:15	11/21/14 09:15		
				pH, Tested On Site		11/21/14 09:15	11/21/14 09:15		
				Cyanide, Total		12/02/14 08:00	12/02/14 11:35	B4L0082	S4L0035
				Mercury, Total CCVA		12/02/14 09:59	12/02/14 15:09	B4L0085	S4L0055
				EPA 504.1 DBCP/EDB		12/01/14 07:00	12/01/14 18:08	B4L0162	S4L0070
				EPA 531.1 Carbamates		12/03/14 12:08	12/03/14 16:49	B4L0164	S4L0076
14K0275-06	AP-5	11/21/14		Semivolatile Organic Compounds by GC/MS		12/04/14 00:00	12/04/14 00:00	[none]	
				Semivolatile Organic Compounds by GC/FID		12/11/14 00:00	12/11/14 00:00		
				Subcontracted Analyses		12/03/14 00:00	12/05/14 00:00		
				Subcontracted Analyses		12/03/14 00:00	12/22/14 00:00		
				Sulfate (SO4), Anions by Ion Chromatography		11/22/14 08:32	11/22/14 17:33	B4K0874	S4K0471
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/22/14 08:32	11/22/14 17:33		

Response to ISRTP
CWLP - 02538

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Dates Report
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
14K0275-06	AP-5	11/21/14	Groundwater	Fluoride, Anions by Ion Chromatography		11/22/14 08:32	11/22/14 17:33	B4K0874	S4K0471
				Chloride, Anions by Ion Chromatography		11/22/14 08:32	11/22/14 17:33		
				Phenols, Total		11/24/14 08:30	11/24/14 14:26	B4K0921	S4K0466
				Organochlorine Pesticides by GC/ECD		11/25/14 13:00	11/25/14 21:24	B4K1025	S4L0043
				Polychlorinated Biphenyls by GC/ECD		11/25/14 13:00	11/26/14 00:59	B4K1029	S4K0515
				Herbicides by HPLC		11/25/14 16:00	12/02/14 02:17	B4K1047	S4L0011
				Solids, Total Dissolved (TDS)		11/26/14 09:25	11/26/14 09:25	B4K1066	
				Manganese, Total ICP-MS		11/26/14 11:30	12/01/14 11:11	B4K1082	S4K0527
				Thallium, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Selenium, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Antimony, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Nickel, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Barium, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Silver, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Arsenic, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Lead, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Boron, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Iron, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Beryllium, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Cadmium, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Cobalt, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Chromium, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Copper, Total ICP-MS		11/26/14 11:30	12/01/14 11:11		
				Semivolatile Organic Compounds by GC/MS		11/26/14 10:00	12/01/14 19:07	B4K1106	S4L0044
				pH, Tested On Site		11/21/14 11:45	11/21/14 11:45	B4L0037	
				Conductance, Field		11/21/14 11:45	11/21/14 11:45		
				Groundwater Parameters		11/21/14 11:45	11/21/14 11:45		
				Temperature in F, Field		11/21/14 11:45	11/21/14 11:45		
				Cyanide, Total		12/02/14 08:00	12/02/14 11:35	B4L0082	S4L0035
				Mercury, Total CCVA		12/02/14 09:59	12/02/14 15:19	B4L0085	S4L0055
				Volatile Organic Compounds by GC/MS		11/24/14 14:36	11/25/14 02:43	B4L0127	S4L0046
				EPA 504.1 DBCP/EDB		12/01/14 07:00	12/01/14 18:40	B4L0162	S4L0070
				EPA 531.1 Carbamates		12/03/14 12:08	12/03/14 17:25	B4L0164	S4L0076

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1082 - SW3015										
Blank (B4K1082-BLK1)				*Prepared: 11/26/2014 11:30*			*Analyzed: 12/01/2014 10:38*			
Antimony	< 0.0312	0.0312	mg/L							
Arsenic	< 0.0312	0.0312	mg/L							
Barium	< 0.0312	0.0312	mg/L							
Beryllium	< 0.00312	0.00312	mg/L							
Boron	< 0.0156	0.0156	mg/L							
Cadmium	< 0.00312	0.00312	mg/L							
Chromium	< 0.0312	0.0312	mg/L							
Cobalt	< 0.0156	0.0156	mg/L							
Copper	< 0.0312	0.0312	mg/L							
Iron	< 0.625	0.625	mg/L							
Lead	< 0.0312	0.0312	mg/L							
Manganese	< 0.0312	0.0312	mg/L							
Nickel	< 0.0312	0.0312	mg/L							
Selenium	< 0.0312	0.0312	mg/L							
Silver	< 0.00312	0.00312	mg/L							
Thallium	< 0.0312	0.0312	mg/L							
LCS (B4K1082-BS1)				*Prepared: 11/26/2014 11:30*			*Analyzed: 12/01/2014 10:40*			
Antimony	1.21	0.0312	mg/L	1.25		97.0	85-117			
Arsenic	1.15	0.0312	mg/L	1.25		92.0	84-116			
Barium	1.31	0.0312	mg/L	1.25		105	86-114			
Beryllium	0.123	0.00312	mg/L	0.125		98.1	83-121			
Boron	0.645	0.0156	mg/L	0.625		103	73-130			
Cadmium	0.119	0.00312	mg/L	0.125		94.9	87-115			
Chromium	1.28	0.0312	mg/L	1.25		102	85-116			
Cobalt	1.27	0.0156	mg/L	1.25		102	86-115			
Copper	1.31	0.0312	mg/L	1.25		105	85-118			
Iron	1.30	0.625	mg/L	1.25		104	87-118			
Lead	1.31	0.0312	mg/L	1.25		105	88-115			
Manganese	1.31	0.0312	mg/L	1.25		105	87-115			
Nickel	1.30	0.0312	mg/L	1.25		104	85-117			
Selenium	1.05	0.0312	mg/L	1.25		84.4	80-120			
Silver	0.128	0.00312	mg/L	0.125		102	85-116			
Thallium	1.30	0.0312	mg/L	1.25		104	82-116			
Serial Dilution (B4K1082-DUP1)			**Source: 14K0275-05**	*Prepared: 11/26/2014 11:30*			*Analyzed: 12/01/2014 11:43*			
Antimony	< 0.00682	0.156	mg/L		ND				20	
Arsenic	0.0174	0.156	mg/L		0.0160			8.65	20	
Barium	0.373	0.156	mg/L		0.351			5.96	20	
Beryllium	< 0.00180	0.0156	mg/L		ND				20	
Boron	0.119	0.0781	mg/L		0.103			14.0	20	
Cadmium	< 0.00222	0.0156	mg/L		ND				20	

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1082 - SW3015 *(Continued)*										
Serial Dilution (B4K1082-DUP1) (Continued)		**Source: 14K0275-05**		*Prepared: 11/26/2014 11:30*		*Analyzed: 12/01/2014 11:43*				
Chromium	< 0.00412	0.156	mg/L		0.000945				20	
Cobalt	< 0.00525	0.0781	mg/L		ND				20	
Copper	< 0.0180	0.156	mg/L		ND				20	
Iron	13.4	3.12	mg/L		12.8			4.25	20	
Lead	< 0.00175	0.156	mg/L		0.000653				20	
Manganese	0.173	0.156	mg/L		0.163			5.90	20	
Nickel	< 0.00780	0.156	mg/L		ND				20	
Selenium	< 0.00212	0.156	mg/L		ND				20	
Silver	< 0.00230	0.0156	mg/L		ND				20	
Thallium	< 0.00198	0.156	mg/L		ND				20	
MRL Check (B4K1082-MRL2)				*Prepared: 11/26/2014 11:30*		*Analyzed: 12/01/2014 11:40*				
Antimony	0.0295	0.0312	mg/L	0.0312		94.5	70-130			
Arsenic	0.0323	0.0312	mg/L	0.0312		103	70-130			
Barium	0.0346	0.0312	mg/L	0.0312		111	70-130			
Beryllium	0.00381	0.00312	mg/L	0.00312		122	70-130			
Boron	0.0274	0.0156	mg/L	0.0156		176	70-130			S
Cadmium	0.00321	0.00312	mg/L	0.00312		103	70-130			
Chromium	0.0329	0.0312	mg/L	0.0312		105	70-130			
Cobalt	0.0142	0.0156	mg/L	0.0125		114	70-130			
Copper	0.0376	0.0312	mg/L	0.0312		120	70-130			
Iron	0.0566	0.625	mg/L	0.0312		181	70-130			S
Lead	0.0338	0.0312	mg/L	0.0312		108	70-130			
Manganese	0.0345	0.0312	mg/L	0.0312		110	70-130			
Nickel	0.0363	0.0312	mg/L	0.0312		116	70-130			
Selenium	0.0306	0.0312	mg/L	0.0312		97.8	70-130			
Silver	0.00332	0.00312	mg/L	0.00312		106	70-130			
Thallium	0.0370	0.0312	mg/L	0.0312		118	70-130			
Matrix Spike (B4K1082-MS1)		**Source: 14K0275-05**		*Prepared: 11/26/2014 11:30*		*Analyzed: 12/01/2014 11:14*				
Antimony	1.27	0.0312	mg/L	1.25	ND	102	75-125			
Arsenic	1.20	0.0312	mg/L	1.25	0.0160	95.0	75-125			
Barium	1.76	0.0312	mg/L	1.25	0.351	113	75-125			
Beryllium	0.128	0.00312	mg/L	0.125	ND	103	75-125			
Boron	0.792	0.0156	mg/L	0.625	0.103	110	75-125			
Cadmium	0.124	0.00312	mg/L	0.125	ND	99.1	75-125			
Chromium	1.30	0.0312	mg/L	1.25	0.000945	104	75-125			
Cobalt	1.27	0.0156	mg/L	1.25	ND	102	75-125			
Copper	1.26	0.0312	mg/L	1.25	ND	101	75-125			
Iron	14.1	0.625	mg/L	1.25	12.8	99.4	75-125			
Lead	1.37	0.0312	mg/L	1.25	0.000653	109	75-125			
Manganese	1.51	0.0312	mg/L	1.25	0.163	107	75-125			

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1082 - SW3015 *(Continued)*										
Matrix Spike (B4K1082-MS1) (Continued)		**Source: 14K0275-05**		*Prepared: 11/26/2014 11:30*		*Analyzed: 12/01/2014 11:14*				
Nickel	1.28	0.0312	mg/L	1.25	ND	103	75-125			
Selenium	1.11	0.0312	mg/L	1.25	ND	88.7	75-125			
Silver	0.119	0.00312	mg/L	0.125	ND	95.1	75-125			
Thallium	1.38	0.0312	mg/L	1.25	ND	110	75-125			
Matrix Spike Dup (B4K1082-MSD1)		**Source: 14K0275-05**		*Prepared: 11/26/2014 11:30*		*Analyzed: 12/01/2014 11:16*				
Antimony	1.29	0.0312	mg/L	1.25	ND	103	75-125	1.61	20	
Arsenic	1.22	0.0312	mg/L	1.25	0.0160	96.7	75-125	1.76	20	
Barium	1.77	0.0312	mg/L	1.25	0.351	114	75-125	0.470	20	
Beryllium	0.131	0.00312	mg/L	0.125	ND	105	75-125	2.41	20	
Boron	0.786	0.0156	mg/L	0.625	0.103	109	75-125	0.777	20	
Cadmium	0.123	0.00312	mg/L	0.125	ND	98.4	75-125	0.790	20	
Chromium	1.34	0.0312	mg/L	1.25	0.000945	107	75-125	2.53	20	
Cobalt	1.30	0.0156	mg/L	1.25	ND	104	75-125	2.40	20	
Copper	1.29	0.0312	mg/L	1.25	ND	103	75-125	2.27	20	
Iron	14.1	0.625	mg/L	1.25	12.8	105	75-125	0.481	20	
Lead	1.41	0.0312	mg/L	1.25	0.000653	112	75-125	2.90	20	
Manganese	1.54	0.0312	mg/L	1.25	0.163	110	75-125	2.24	20	
Nickel	1.33	0.0312	mg/L	1.25	ND	106	75-125	3.38	20	
Selenium	1.12	0.0312	mg/L	1.25	ND	89.9	75-125	1.35	20	
Silver	0.110	0.00312	mg/L	0.125	ND	88.1	75-125	7.73	20	
Thallium	1.44	0.0312	mg/L	1.25	ND	115	75-125	4.31	20	
Post Spike (B4K1082-PS1)		**Source: 14K0275-05**		*Prepared: 11/26/2014 11:30*		*Analyzed: 12/01/2014 11:41*				
Antimony	0.205	0.0250	mg/L	0.250	ND	81.9	75-125			
Arsenic	0.228	0.0250	mg/L	0.250	0.0160	84.9	75-125			
Barium	0.520	0.0250	mg/L	0.250	0.351	67.5	75-125			S
Beryllium	0.117	0.00250	mg/L	0.125	ND	93.6	75-125			
Boron	0.345	0.0125	mg/L	0.250	0.103	96.5	75-125			
Cadmium	0.218	0.00250	mg/L	0.250	ND	87.1	75-125			
Chromium	0.218	0.0250	mg/L	0.250	0.000945	86.6	75-125			
Cobalt	0.226	0.0125	mg/L	0.250	ND	90.6	75-125			
Copper	0.234	0.0250	mg/L	0.250	ND	93.6	75-125			
Iron	11.8	0.500	mg/L	1.25	12.8	NR	75-125			S
Lead	0.252	0.0250	mg/L	0.250	0.000653	100	75-125			
Manganese	0.358	0.0250	mg/L	0.250	0.163	78.0	75-125			
Nickel	0.231	0.0250	mg/L	0.250	ND	92.2	75-125			
Selenium	0.203	0.0250	mg/L	0.250	ND	81.3	75-125			
Silver	0.229	0.00250	mg/L	0.250	ND	91.7	75-125			
Thallium	0.254	0.0250	mg/L	0.250	ND	102	75-125			

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1010										
Blank (B4K1010-BLK2)				*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 14:12*						
Mercury	< 0.0002	0.0002	mg/L							
LCS (B4K1010-BS1)				*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 14:15*						
Mercury	0.005	0.0002	mg/L	0.00500		106	82-119			
Duplicate (B4K1010-DUP1)		**Source: 14K0768-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 16:12*						
Mercury	0.0004	0.0005	mg/L		ND				20	
Duplicate (B4K1010-DUP2)		**Source: 14K0793-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 16:14*						
Mercury	0.0008	0.0005	mg/L		ND				20	
Duplicate (B4K1010-DUP3)		**Source: 14K0753-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 16:19*						
Mercury	0.003	0.0005	mg/L		ND				20	P
MRL Check (B4K1010-MRL1)				*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 13:49*						
Mercury	0.0002	0.0002	mg/L	0.000250		89.4	70-130			
Matrix Spike (B4K1010-MS1)		**Source: 14K0713-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 14:24*						
Mercury	0.004	0.0005	mg/L	0.00400		104	75-125			
Matrix Spike (B4K1010-MS2)		**Source: 14K0793-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 15:46*						
Mercury	0.005	0.0005	mg/L	0.00400	ND	126	75-125			
Matrix Spike (B4K1010-MS3)		**Source: 14K0265-02**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 15:52*						
Mercury	0.004	0.0005	mg/L	0.00400	ND	95.8	75-125			
Matrix Spike Dup (B4K1010-MSD1)		**Source: 14K0713-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 14:26*						
Mercury	0.004	0.0005	mg/L	0.00400		103	75-125	1.26	20	
Matrix Spike Dup (B4K1010-MSD2)		**Source: 14K0793-01**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 15:44*						
Mercury	0.005	0.0005	mg/L	0.00400	ND	124	75-125	0.959	20	
Matrix Spike Dup (B4K1010-MSD3)		**Source: 14K0265-02**		*Prepared: 11/25/2014 09:00 Analyzed: 11/25/2014 15:55*						
Mercury	0.004	0.0005	mg/L	0.00400	ND	91.3	75-125	4.70	20	
Batch: B4L0085										
Blank (B4L0085-BLK1)				*Prepared: 12/02/2014 09:59 Analyzed: 12/02/2014 13:40*						
Mercury	< 0.0002	0.0002	mg/L							

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Mercury by CVAA
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4L0085 *(Continued)*										
LCS (B4L0085-BS1)				*Prepared: 12/02/2014 09:59*			*Analyzed: 12/02/2014 13:43*			
Mercury	0.005	0.0002	mg/L	0.00500		102	82-119			
Duplicate (B4L0085-DUP1)		**Source: 14K0273-07**		*Prepared: 12/02/2014 09:59*			*Analyzed: 12/03/2014 12:42*			
Mercury	< 0.0002	0.0005	mg/L		ND				20	
Duplicate (B4L0085-DUP3)		**Source: 14K0275-03**		*Prepared: 12/02/2014 09:59*			*Analyzed: 12/03/2014 12:42*			
Mercury	< 0.0002	0.0005	mg/L		0.0006				20	
MRL Check (B4L0085-MRL1)				*Prepared: 12/02/2014 09:59*			*Analyzed: 12/02/2014 13:21*			
Mercury	0.0003	0.0002	mg/L	0.000250		110	70-130			
Matrix Spike (B4L0085-MS2)		**Source: 14K0275-05**		*Prepared: 12/02/2014 09:59*			*Analyzed: 12/02/2014 15:11*			
Mercury	0.004	0.0005	mg/L	0.00400	0.0002	89.3	75-125			
Matrix Spike Dup (B4L0085-MSD2)		**Source: 14K0275-05**		*Prepared: 12/02/2014 09:59*			*Analyzed: 12/02/2014 15:13*			
Mercury	0.004	0.0005	mg/L	0.00400	0.0002	91.1	75-125	1.88	20	

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K0859										
Blank (B4K0859-BLK1)				*Prepared: 11/21/2014 10:57 Analyzed: 11/21/2014 11:18*						
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B4K0859-BS1)				*Prepared: 11/21/2014 10:57 Analyzed: 11/21/2014 13:49*						
Chloride	0.199		mg/L	0.200		99.4	87-111			S
Fluoride	0.197		mg/L	0.200		98.4	88-112			
Nitrogen, Nitrate	0.0771		mg/L	0.0904		85.3	88-111			S
Sulfate	0.406		mg/L	0.400		102	87-112			
LCS (B4K0859-BS2)				*Prepared: 11/21/2014 10:57 Analyzed: 11/21/2014 12:33*						
Chloride	4.96		mg/L	5.00		99.2	87-111			
Fluoride	4.90		mg/L	5.00		97.9	88-112			
Nitrogen, Nitrate	2.16		mg/L	2.26		95.4	88-111			
Sulfate	9.83		mg/L	10.0		98.3	87-112			
Batch: B4K0874										
Blank (B4K0874-BLK1)				*Prepared: 11/22/2014 08:32 Analyzed: 11/22/2014 08:43*						
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B4K0874-BS1)				*Prepared: 11/22/2014 08:32 Analyzed: 11/22/2014 09:21*						
Chloride	0.194		mg/L	0.200		97.2	87-111			
Fluoride	0.197		mg/L	0.200		98.4	88-112			
Nitrogen, Nitrate	0.0710		mg/L	0.0904		78.5	88-111			S
Sulfate	0.408		mg/L	0.400		102	87-112			
LCS (B4K0874-BS2)				*Prepared: 11/22/2014 08:32 Analyzed: 11/22/2014 09:59*						
Chloride	5.00		mg/L	5.00		100	87-111			
Fluoride	4.95		mg/L	5.00		99.1	88-112			
Nitrogen, Nitrate	2.16		mg/L	2.26		95.6	88-111			
Sulfate	9.86		mg/L	10.0		98.6	87-112			
Matrix Spike (B4K0874-MS1)		**Source: 14K0273-09**		*Prepared: 11/22/2014 08:32 Analyzed: 11/23/2014 02:23*						
Nitrogen, Nitrate	25.6	0.500	mg/L	25.0	0.129	102	80-120			

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Anions by Ion Chromatography
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K0874 *(Continued)*										
Matrix Spike (B4K0874-MS2)		**Source: 14K0013-17**		*Prepared: 11/22/2014 08:32*			*Analyzed: 11/23/2014 01:08*			
Fluoride	290	5.00	mg/L	250	4.40	114	80-120			
Sulfate	1690	50.0	mg/L	250	1400	115	80-120			
Matrix Spike Dup (B4K0874-MSD1)		**Source: 14K0273-09**		*Prepared: 11/22/2014 08:32*			*Analyzed: 11/23/2014 03:01*			
Nitrogen, Nitrate	25.6	0.500	mg/L	25.0	0.129	102	80-120	0.0273	20	
Matrix Spike Dup (B4K0874-MSD2)		**Source: 14K0013-17**		*Prepared: 11/22/2014 08:32*			*Analyzed: 11/23/2014 01:45*			
Fluoride	288	5.00	mg/L	250	4.40	114	80-120	0.567	20	
Sulfate	1690	50.0	mg/L	250	1400	114	80-120	0.167	20	
Batch: B4K1108										
Blank (B4K1108-BLK1)							*Prepared: 11/29/2014 05:34*	*Analyzed: 11/29/2014 05:44*		
Sulfate	< 0.500	0.500	mg/L							
LCS (B4K1108-BS1)							*Prepared: 11/29/2014 05:34*	*Analyzed: 11/29/2014 06:22*		
Sulfate	0.579		mg/L	0.400		145	87-112			S
LCS (B4K1108-BS2)							*Prepared: 11/29/2014 05:34*	*Analyzed: 11/29/2014 07:00*		
Sulfate	10.2		mg/L	10.0		102	87-112			
Batch: B4K1109										
Blank (B4K1109-BLK1)							*Prepared: 11/30/2014 03:45*	*Analyzed: 11/30/2014 04:25*		
Sulfate	< 0.500	0.500	mg/L							
LCS (B4K1109-BS1)							*Prepared: 11/30/2014 03:45*	*Analyzed: 11/30/2014 05:03*		
Sulfate	0.622		mg/L	0.400		155	87-112			S
LCS (B4K1109-BS2)							*Prepared: 11/30/2014 03:45*	*Analyzed: 11/30/2014 05:41*		
Sulfate	10.3		mg/L	10.0		103	87-112			

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K0921										
Blank (B4K0921-BLK1)				*Prepared: 11/24/2014 08:30 Analyzed: 11/24/2014 14:26*						
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B4K0921-BS1)				*Prepared: 11/24/2014 08:30 Analyzed: 11/24/2014 14:26*						
Phenolics, Total Recoverable	0.0491	0.0100	mg/L	0.0500		98.3	85-115			
Matrix Spike (B4K0921-MS1)		**Source: 14K0275-06**		*Prepared: 11/24/2014 08:30 Analyzed: 11/24/2014 14:26*						
Phenolics, Total Recoverable	0.0497	0.0100	mg/L	0.0500	0.00774	83.9	80-120			
Matrix Spike Dup (B4K0921-MSD1)		**Source: 14K0275-06**		*Prepared: 11/24/2014 08:30 Analyzed: 11/24/2014 14:26*						
Phenolics, Total Recoverable	0.0528	0.0100	mg/L	0.0500	0.00774	90.1	80-120	6.07	10	
Batch: B4K0933										
Blank (B4K0933-BLK1)				*Prepared: 11/24/2014 13:30 Analyzed: 11/24/2014 13:30*						
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B4K0933-BS1)				*Prepared: 11/24/2014 13:30 Analyzed: 11/24/2014 13:30*						
Total Dissolved Solids (Residue, Filterable)	980	10.0	mg/L	943		104	85-115			
Duplicate (B4K0933-DUP1)		**Source: 14K0275-04**		*Prepared: 11/24/2014 13:30 Analyzed: 11/24/2014 13:30*						
Total Dissolved Solids (Residue, Filterable)	874	10.0	mg/L		974			10.8	5	P
Batch: B4K1066										
Blank (B4K1066-BLK1)				*Prepared: 11/26/2014 09:25 Analyzed: 11/26/2014 09:25*						
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B4K1066-BS1)				*Prepared: 11/26/2014 09:25 Analyzed: 11/26/2014 09:25*						
Total Dissolved Solids (Residue, Filterable)	932	10.0	mg/L	950		98.1	85-115			
Duplicate (B4K1066-DUP1)		**Source: 14K0289-03**		*Prepared: 11/26/2014 09:25 Analyzed: 11/26/2014 09:25*						
Total Dissolved Solids (Residue, Filterable)	1220	10.0	mg/L		1300			6.83	5	P
Duplicate (B4K1066-DUP2)		**Source: 14K0709-12**		*Prepared: 11/26/2014 09:25 Analyzed: 11/26/2014 09:25*						
Total Dissolved Solids (Residue, Filterable)	400	10.0	mg/L		395			1.26	5	

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Wet Chemistry
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4L0082 - SW9010B										
Blank (B4L0082-BLK1)				*Prepared: 12/02/2014 08:00*			*Analyzed: 12/02/2014 11:27*			
Cyanide	< 0.010	0.010	mg/L							
LCS (B4L0082-BS1)				*Prepared: 12/02/2014 08:00*			*Analyzed: 12/02/2014 11:27*			
Cyanide	0.044	0.010	mg/L	0.0500		88.7	83-116			
LCS (B4L0082-BS2)				*Prepared: 12/02/2014 08:00*			*Analyzed: 12/02/2014 11:27*			
Cyanide	0.012	0.010	mg/L	0.0100		117	83-116			S
Matrix Spike (B4L0082-MS1)		**Source: 14K0275-02**		*Prepared: 12/02/2014 08:00*			*Analyzed: 12/02/2014 11:43*			
Cyanide	0.201	0.010	mg/L	0.200	ND	101	80-120			
Matrix Spike Dup (B4L0082-MSD1)		**Source: 14K0275-02**		*Prepared: 12/02/2014 08:00*			*Analyzed: 12/02/2014 11:50*			
Cyanide	0.176	0.010	mg/L	0.200	ND	87.9	80-120	13.6	10	P

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1025 - SW3510										
Blank (B4K1025-BLK1)				*Prepared: 11/25/2014 13:00 Analyzed: 11/25/2014 15:58*						
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.0800*		*ug/L*	*0.100*		*80*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0713*		*ug/L*	*0.100*		*71*	*44-124*			
LCS (B4K1025-BS1)				*Prepared: 11/25/2014 13:00 Analyzed: 11/25/2014 16:45*						
Alachlor	< 0.0865	0.500	ug/L				19-132			
Atrazine	< 0.120	0.500	ug/L				57-119			
Chlordane	< 0.0495	0.500	ug/L				0-200			
Endrin	0.0909	0.300	ug/L	0.100		91	60-138			
Lindane (gamma-BHC)	0.0818	0.300	ug/L	0.100		82	59-134			
Heptachlor	0.0952	0.300	ug/L	0.100		95	54-130			
Heptachlor epoxide	0.0896	0.300	ug/L	0.100		90	61-133			
Methoxychlor	0.103	0.300	ug/L	0.100		103	54-145			
Simazine	< 0.144	0.500	ug/L				35-124			
Toxaphene	< 0.316	1.50	ug/L				0-200			
Surrogate: Decachlorobiphenyl	*0.0870*		*ug/L*	*0.100*		*87*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0779*		*ug/L*	*0.100*		*78*	*44-124*			
LCS (B4K1025-BS2)				*Prepared: 11/25/2014 13:00 Analyzed: 11/25/2014 17:31*						
Alachlor	0.562	0.500	ug/L	0.500		112	19-132			
Atrazine	0.396	0.500	ug/L	0.500		79	57-119			
Chlordane	< 0.0495	0.500	ug/L				0-200			
Endrin	< 0.00150	0.300	ug/L				60-138			
Lindane (gamma-BHC)	< 0.00280	0.300	ug/L				59-134			
Heptachlor	< 0.00470	0.300	ug/L				54-130			
Heptachlor epoxide	< 0.00200	0.300	ug/L				61-133			
Methoxychlor	< 0.00250	0.300	ug/L				54-145			
Simazine	0.482	0.500	ug/L	0.500		96	35-124			
Toxaphene	< 0.316	1.50	ug/L				0-200			
Surrogate: Decachlorobiphenyl	*0.00*		*ug/L*	*0.100*			*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.00*		*ug/L*	*0.100*			*44-124*			

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Organochlorine Pesticides by GC/ECD
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1025 - SW3510 *(Continued)*										
Matrix Spike (B4K1025-MS1)		**Source: 14K0265-01**		*Prepared: 11/25/2014 13:00*			*Analyzed: 11/25/2014 19:05*			
Alachlor	< 0.173	1.00	ug/L		ND		50-150			
Atrazine	< 0.241	1.00	ug/L		ND		50-150			
Chlordane	< 0.0990	1.00	ug/L		ND		0-200			
Endrin	0.166	0.600	ug/L	0.200	ND	83	50-150			
Lindane (gamma-BHC)	0.106	0.600	ug/L	0.200	ND	53	50-150			
Heptachlor	0.127	0.600	ug/L	0.200	ND	63	50-150			
Heptachlor epoxide	0.133	0.600	ug/L	0.200	ND	67	50-150			
Methoxychlor	0.232	0.600	ug/L	0.200	ND	116	50-150			
Simazine	< 0.288	1.00	ug/L		ND		50-150			
Toxaphene	< 0.631	3.00	ug/L		ND		0-200			
Surrogate: Decachlorobiphenyl	*0.205*		*ug/L*	*0.200*		*102*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.112*		*ug/L*	*0.200*		*56*	*44-124*			
Matrix Spike Dup (B4K1025-MSD1)		**Source: 14K0265-01**		*Prepared: 11/25/2014 13:00*			*Analyzed: 11/25/2014 19:51*			
Alachlor	< 0.168	0.972	ug/L		ND		50-150		30	
Atrazine	< 0.234	0.972	ug/L		ND		50-150		30	
Chlordane	< 0.0962	0.972	ug/L		ND		0-200		200	
Endrin	0.147	0.583	ug/L	0.194	ND	76	50-150	12	30	
Lindane (gamma-BHC)	0.0917	0.583	ug/L	0.194	ND	47	50-150	15	30	S
Heptachlor	0.106	0.583	ug/L	0.194	ND	55	50-150	17	30	
Heptachlor epoxide	0.117	0.583	ug/L	0.194	ND	60	50-150	13	30	
Methoxychlor	0.202	0.583	ug/L	0.194	ND	104	50-150	14	30	
Simazine	< 0.280	0.972	ug/L		ND		50-150		30	
Toxaphene	< 0.614	2.92	ug/L		ND		0-200		200	
Surrogate: Decachlorobiphenyl	*0.179*		*ug/L*	*0.194*		*92*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0999*		*ug/L*	*0.194*		*51*	*44-124*			

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1029 - SW3510										
Blank (B4K1029-BLK1)				*Prepared: 11/25/2014 13:00*			*Analyzed: 11/25/2014 19:34*			
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Aroclor 1262	< 1.00	1.00	ug/L							
Aroclor 1268	< 0.500	0.500	ug/L							
Surrogate: Decachlorobiphenyl	*0.0847*		*ug/L*	*0.100*		*85*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0632*		*ug/L*	*0.100*		*63*	*13-133*			
LCS (B4K1029-BS1)				*Prepared: 11/25/2014 13:00*			*Analyzed: 11/25/2014 20:01*			
Aroclor 1016	0.594	0.500	ug/L	0.800		74	46-129			
Aroclor 1260	0.673	0.500	ug/L	0.800		84	45-134			
Surrogate: Decachlorobiphenyl	*0.0753*		*ug/L*	*0.100*		*75*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0676*		*ug/L*	*0.100*		*68*	*13-133*			
Matrix Spike (B4K1029-MS1)		**Source: 14K0265-02**		*Prepared: 11/25/2014 13:00*			*Analyzed: 11/25/2014 21:22*			
Aroclor 1016	0.601	0.941	ug/L	1.51	ND	40	50-150			S
Aroclor 1260	1.12	0.941	ug/L	1.51	ND	74	50-150			
Surrogate: Decachlorobiphenyl	*0.163*		*ug/L*	*0.188*		*87*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0662*		*ug/L*	*0.188*		*35*	*13-133*			
Matrix Spike Dup (B4K1029-MSD1)		**Source: 14K0265-02**		*Prepared: 11/25/2014 13:00*			*Analyzed: 11/25/2014 21:49*			
Aroclor 1016	0.748	0.962	ug/L	1.54	ND	49	50-150	22	30	S
Aroclor 1260	1.15	0.962	ug/L	1.54	ND	75	50-150	3	30	
Surrogate: Decachlorobiphenyl	*0.183*		*ug/L*	*0.192*		*95*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0945*		*ug/L*	*0.192*		*49*	*13-133*			

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4L0164										
Blank (B4L0164-BLK1)				*Prepared: 12/03/2014 11:00*			*Analyzed: 12/03/2014 11:49*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B4L0164-BS1)				*Prepared: 12/03/2014 11:00*			*Analyzed: 12/03/2014 12:25*			
Aldicarb	0.0475		ng	0.0500		95	85-115			
Carbofuran	0.0472		ng	0.0500		94	85-115			
LCS Dup (B4L0164-BSD1)				*Prepared: 12/03/2014 11:00*			*Analyzed: 12/03/2014 18:10*			
Aldicarb	0.0481		ng	0.0500		96	85-115	1	20	
Carbofuran	0.0476		ng	0.0500		95	85-115	0.9	20	

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1047 - SW3510										
Blank (B4K1047-BLK1)				*Prepared: 11/25/2014 16:00*			*Analyzed: 12/01/2014 19:15*			
2,4,5-TP (Silvex)	< 5.00	5.00	ug/L							
2,4-D	< 12.0	12.0	ug/L							
Dinoseb	< 0.700	0.700	ug/L							
Picloram	< 0.264	0.264	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*30.6*		*ug/L*	*50.0*		*61*	*20-138*			
LCS (B4K1047-BS1)				*Prepared: 11/25/2014 16:00*			*Analyzed: 12/01/2014 19:57*			
2,4,5-TP (Silvex)	9.82	1.50	ug/L	10.0		98	50-115			
2,4-D	9.50	1.50	ug/L	10.0		95	35-115			
Picloram	9.97	1.50	ug/L	10.0		100	50-150			
Surrogate: 3,5-Dichlorobenzoic Acid	*28.2*		*ug/L*	*50.0*		*56*	*20-138*			
LCS (B4K1047-BS2)				*Prepared: 11/25/2014 16:00*			*Analyzed: 12/01/2014 20:40*			
Dinoseb	6.87	1.50	ug/L	10.0		69	20-100			
Matrix Spike (B4K1047-MS1)		**Source: 14K0275-06**		*Prepared: 11/25/2014 16:00*			*Analyzed: 12/02/2014 22:21*			
2,4,5-TP (Silvex)	18.0	2.84	ug/L	19.0	ND	95	50-150			
2,4-D	17.7	2.84	ug/L	19.0	ND	93	50-150			
Picloram	18.2	2.84	ug/L	19.0	ND	96	50-150			
Surrogate: 3,5-Dichlorobenzoic Acid	*48.9*		*ug/L*	*94.8*		*52*	*20-138*			
Matrix Spike Dup (B4K1047-MSD1)		**Source: 14K0275-06**		*Prepared: 11/25/2014 16:00*			*Analyzed: 12/02/2014 23:03*			
2,4,5-TP (Silvex)	17.7	2.98	ug/L	19.9	ND	89	50-150	2	30	
2,4-D	17.5	2.98	ug/L	19.9	ND	88	50-150	1	30	
Picloram	17.9	2.98	ug/L	19.9	ND	90	50-150	1	30	
Surrogate: 3,5-Dichlorobenzoic Acid	*47.1*		*ug/L*	*99.5*		*47*	*20-138*			

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1085 - SW5030										
Blank (B4K1085-BLK1)				*Prepared: 11/25/2014 10:00 Analyzed: 11/25/2014 13:52*						
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 6.00	6.00	ug/L							
Surrogate: Dibromofluoromethane	*23.3*		*ug/L*	*20.0*		*117*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.5*		*ug/L*	*20.0*		*113*	*81-118*			
Surrogate: Fluorobenzene	*19.7*		*ug/L*	*20.0*		*98*	*80-116*			
Surrogate: Toluene-d8	*20.3*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.8*		*ug/L*	*10.0*		*108*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.2*		*ug/L*	*20.0*		*101*	*70-120*			
LCS (B4K1085-BS1)				*Prepared: 11/25/2014 10:00 Analyzed: 11/25/2014 12:15*						
1,1,1-Trichloroethane	90.7	2.00	ug/L	80.0		113	74-131			
1,1,2-Trichloroethane	87.8	2.00	ug/L	80.0		110	80-119			
1,1-Dichloroethene	95.5	2.00	ug/L	80.0		119	71-131			
1,2-Dichloroethane	91.1	2.00	ug/L	80.0		114	73-128			
1,2-Dichloropropane	84.1	2.00	ug/L	80.0		105	78-122			
Benzene	78.2	2.00	ug/L	80.0		98	79-120			
Carbon tetrachloride	86.4	4.00	ug/L	80.0		108	72-136			
Chlorobenzene	76.4	2.00	ug/L	80.0		95	82-118			
cis-1,2-Dichloroethene	88.9	10.0	ug/L	80.0		111	78-123			
Ethylbenzene	79.7	2.00	ug/L	80.0		100	79-121			
Methyl tert-butyl ether	71.6	2.00	ug/L	80.0		89	71-124			
Dichloromethane (Methylene chloride)	103	2.00	ug/L	80.0		128	74-124			S
Styrene	81.5	2.00	ug/L	80.0		102	78-123			
Tetrachloroethene	65.8	4.00	ug/L	80.0		82	74-129			
Toluene	66.5	2.00	ug/L	80.0		83	80-121			

Response to 1st RTP
CWLP - 02554

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Volatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1085 - SW5030 *(Continued)*										
LCS (B4K1085-BS1) (Continued)				*Prepared: 11/25/2014 10:00*			*Analyzed: 11/25/2014 12:15*			
trans-1,2-Dichloroethene	84.8	10.0	ug/L	80.0		106	75-124			
Trichloroethene	79.9	2.00	ug/L	80.0		100	79-123			
Vinyl chloride	111	2.00	ug/L	80.0		139	58-137			S
Xylenes, Total	239	8.00	ug/L	240		99	79-121			
Surrogate: Dibromofluoromethane	*25.3*		*ug/L*	*20.0*		*126*	*80-119*			*S*
Surrogate: 1,2-Dichloroethane-d4	*24.4*		*ug/L*	*20.0*		*122*	*81-118*			*S*
Surrogate: Fluorobenzene	*19.5*		*ug/L*	*20.0*		*97*	*80-116*			
Surrogate: Toluene-d8	*17.7*		*ug/L*	*20.0*		*89*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.89*		*ug/L*	*10.0*		*99*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.1*		*ug/L*	*20.0*		*101*	*70-120*			
LCS Dup (B4K1085-BSD1)				*Prepared: 11/25/2014 10:00*			*Analyzed: 11/25/2014 12:47*			
1,1,1-Trichloroethane	109	2.00	ug/L	80.0		136	74-131	18	20	S
1,1,2-Trichloroethane	90.0	2.00	ug/L	80.0		113	80-119	3	20	
1,1-Dichloroethene	119	2.00	ug/L	80.0		148	71-131	22	20	P, S
1,2-Dichloroethane	98.6	2.00	ug/L	80.0		123	73-128	8	20	
1,2-Dichloropropane	99.1	2.00	ug/L	80.0		124	78-122	16	20	S
Benzene	98.5	2.00	ug/L	80.0		123	79-120	23	20	P, S
Carbon tetrachloride	111	4.00	ug/L	80.0		138	72-136	25	20	P, S
Chlorobenzene	93.5	2.00	ug/L	80.0		117	82-118	20	20	
cis-1,2-Dichloroethene	104	10.0	ug/L	80.0		130	78-123	16	20	S
Ethylbenzene	98.0	2.00	ug/L	80.0		122	79-121	21	20	P, S
Methyl tert-butyl ether	88.2	2.00	ug/L	80.0		110	71-124	21	20	P
Dichloromethane (Methylene chloride)	91.0	2.00	ug/L	80.0		114	74-124	12	20	
Styrene	93.6	2.00	ug/L	80.0		117	78-123	14	20	
Tetrachloroethene	92.6	4.00	ug/L	80.0		116	74-129	34	20	P
Toluene	91.6	2.00	ug/L	80.0		114	80-121	32	20	P
trans-1,2-Dichloroethene	108	10.0	ug/L	80.0		135	75-124	24	20	P, S
Trichloroethene	98.6	2.00	ug/L	80.0		123	79-123	21	20	P
Vinyl chloride	84.1	2.00	ug/L	80.0		105	58-137	28	20	P
Xylenes, Total	295	8.00	ug/L	240		123	79-121	21	20	P, S
Surrogate: Dibromofluoromethane	*25.0*		*ug/L*	*20.0*		*125*	*80-119*			*S*
Surrogate: 1,2-Dichloroethane-d4	*22.3*		*ug/L*	*20.0*		*112*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.2*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.1*		*ug/L*	*10.0*		*101*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.6*		*ug/L*	*20.0*		*98*	*70-120*			
Batch: B4L0127 - SW5030										
Blank (B4L0127-BLK1)				*Prepared: 11/24/2014 14:36*			*Analyzed: 11/24/2014 22:54*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4L0127 - SW5030 *(Continued)*										
Blank (B4L0127-BLK1) (Continued)				*Prepared: 11/24/2014 14:36 Analyzed: 11/24/2014 22:54*						
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*23.1*		*ug/L*	*20.0*		*115*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.6*		*ug/L*	*20.0*		*113*	*81-118*			
Surrogate: Fluorobenzene	*19.8*		*ug/L*	*20.0*		*99*	*80-116*			
Surrogate: Toluene-d8	*20.2*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*11.2*		*ug/L*	*10.0*		*112*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.2*		*ug/L*	*20.0*		*101*	*70-120*			
LCS (B4L0127-BS1)				*Prepared: 11/24/2014 14:36 Analyzed: 11/24/2014 21:16*						
1,1,1-Trichloroethane	90.1	2.00	ug/L	80.0		113	74-131			
1,1,2-Trichloroethane	79.8	2.00	ug/L	80.0		100	80-119			
1,1-Dichloroethene	97.3	2.00	ug/L	80.0		122	71-131			
1,2-Dichloroethane	82.5	2.00	ug/L	80.0		103	73-128			
1,2-Dichloropropane	87.4	2.00	ug/L	80.0		109	78-122			
Benzene	87.4	2.00	ug/L	80.0		109	79-120			
Carbon tetrachloride	98.0	4.00	ug/L	80.0		122	72-136			
Chlorobenzene	83.3	2.00	ug/L	80.0		104	82-118			
cis-1,2-Dichloroethene	87.5	10.0	ug/L	80.0		109	78-123			
Ethylbenzene	84.8	2.00	ug/L	80.0		106	79-121			
Methyl tert-butyl ether	74.4	2.00	ug/L	80.0		93	71-124			
Dichloromethane (Methylene chloride)	78.3	2.00	ug/L	80.0		98	74-124			
Styrene	83.0	2.00	ug/L	80.0		104	78-123			
Tetrachloroethene	85.0	4.00	ug/L	80.0		106	74-129			
Toluene	81.3	2.00	ug/L	80.0		102	80-121			
trans-1,2-Dichloroethene	91.0	10.0	ug/L	80.0		114	75-124			

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Volatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4L0127 - SW5030 *(Continued)*										
LCS (B4L0127-BS1) (Continued)				*Prepared: 11/24/2014 14:36*			*Analyzed: 11/24/2014 21:16*			
Trichloroethene	85.8	2.00	ug/L	80.0		107	79-123			
Vinyl chloride	72.5	2.00	ug/L	80.0		91	58-137			
Xylenes, Total	260	8.00	ug/L	240		108	79-121			
Surrogate: Dibromofluoromethane	*23.0*		*ug/L*	*20.0*		*115*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.3*		*ug/L*	*20.0*		*101*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.4*		*ug/L*	*20.0*		*102*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.7*		*ug/L*	*10.0*		*107*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.5*		*ug/L*	*20.0*		*97*	*70-120*			
LCS Dup (B4L0127-BSD1)				*Prepared: 11/24/2014 14:36*			*Analyzed: 11/24/2014 21:48*			
1,1,1-Trichloroethane	84.1	2.00	ug/L	80.0		105	74-131	7	20	
1,1,2-Trichloroethane	77.8	2.00	ug/L	80.0		97	80-119	2	20	
1,1-Dichloroethene	87.7	2.00	ug/L	80.0		110	71-131	10	20	
1,2-Dichloroethane	79.8	2.00	ug/L	80.0		100	73-128	3	20	
1,2-Dichloropropane	82.9	2.00	ug/L	80.0		104	78-122	5	20	
Benzene	82.6	2.00	ug/L	80.0		103	79-120	6	20	
Carbon tetrachloride	91.2	4.00	ug/L	80.0		114	72-136	7	20	
Chlorobenzene	78.8	2.00	ug/L	80.0		98	82-118	6	20	
cis-1,2-Dichloroethene	81.7	10.0	ug/L	80.0		102	78-123	7	20	
Ethylbenzene	79.5	2.00	ug/L	80.0		99	79-121	6	20	
Methyl tert-butyl ether	73.6	2.00	ug/L	80.0		92	71-124	1	20	
Dichloromethane (Methylene chloride)	72.4	2.00	ug/L	80.0		90	74-124	8	20	
Styrene	78.3	2.00	ug/L	80.0		98	78-123	6	20	
Tetrachloroethene	78.5	4.00	ug/L	80.0		98	74-129	8	20	
Toluene	76.5	2.00	ug/L	80.0		96	80-121	6	20	
trans-1,2-Dichloroethene	86.0	10.0	ug/L	80.0		107	75-124	6	20	
Trichloroethene	79.8	2.00	ug/L	80.0		100	79-123	7	20	
Vinyl chloride	69.1	2.00	ug/L	80.0		86	58-137	5	20	
Xylenes, Total	243	8.00	ug/L	240		101	79-121	7	20	
Surrogate: Dibromofluoromethane	*22.7*		*ug/L*	*20.0*		*114*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.7*		*ug/L*	*20.0*		*104*	*81-118*			
Surrogate: Fluorobenzene	*19.9*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.2*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.7*		*ug/L*	*10.0*		*107*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.8*		*ug/L*	*20.0*		*99*	*70-120*			

Response to 1st RTP
CWLP - 02557

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4L0162										
Blank (B4L0162-BLK1)				*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 14:28*						
1,2-Dibromo-3-chloropropane	< 0.100	0.100	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B4L0162-BS1)				*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 13:25*						
1,2-Dibromo-3-chloropropane	0.253	0.100	ug/L	0.250		101	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.255	0.100	ug/L	0.250		102	70-130			
LCS (B4L0162-BS2)				*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 12:54*						
1,2-Dibromo-3-chloropropane	0.249	0.100	ug/L	0.250		100	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.253	0.100	ug/L	0.250		101	70-130			
LCS (B4L0162-BS3)				*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 16:03*						
1,2-Dibromo-3-chloropropane	0.268	0.100	ug/L	0.250		107	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.269	0.100	ug/L	0.250		108	70-130			
LCS (B4L0162-BS4)				*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 20:46*						
1,2-Dibromo-3-chloropropane	0.273	0.100	ug/L	0.250		109	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.270	0.100	ug/L	0.250		108	70-130			
LCS Dup (B4L0162-BSD1)				*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 13:57*						
1,2-Dibromo-3-chloropropane	0.250	0.100	ug/L	0.250		100	70-130	1	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.256	0.100	ug/L	0.250		102	70-130	0.5	20	
Duplicate (B4L0162-DUP1)		**Source: 14K0265-01**		*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 19:43*						
1,2-Dibromo-3-chloropropane	< 0.0236	0.0946	ug/L		ND					
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0312	0.0946	ug/L		ND					
Matrix Spike (B4L0162-MS1)		**Source: 14K0275-01**		*Prepared: 12/01/2014 07:00 Analyzed: 12/01/2014 15:31*						
1,2-Dibromo-3-chloropropane	0.255	0.100	ug/L	0.250	ND	102	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.255	0.100	ug/L	0.250	ND	102	65-135			

Electronic Filing: Received, Clerk's Office 01/29/2020

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K0970 - SW3510										
Blank (B4K0970-BLK1)				*Prepared: 11/24/2014 14:00 Analyzed: 11/25/2014 14:01*						
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*17.6*		*ug/L*	*33.4*		*53*	*4-108*			
Surrogate: Phenol-d5	*11.5*		*ug/L*	*33.4*		*35*	*1-101*			
Surrogate: Nitrobenzene-d5	*30.3*		*ug/L*	*33.4*		*91*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*32.4*		*ug/L*	*33.4*		*97*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*24.4*		*ug/L*	*33.4*		*73*	*11-102*			
Surrogate: 4-Terphenyl-d14	*49.3*		*ug/L*	*33.4*		*148*	*79-162*			
Blank (B4K0970-BLK2)				*Prepared: 11/24/2014 14:00 Analyzed: 11/25/2014 21:21*						
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*0.00*		*ug/L*	*33.4*			*4-108*			
Surrogate: Phenol-d5	*0.00*		*ug/L*	*33.4*			*1-101*			
Surrogate: Nitrobenzene-d5	*0.00*		*ug/L*	*33.4*			*23-119*			
Surrogate: 2-Fluorobiphenyl	*0.00*		*ug/L*	*33.4*			*28-124*			
Surrogate: 2,4,6-Tribromophenol	*0.00*		*ug/L*	*33.4*			*11-102*			
Surrogate: 4-Terphenyl-d14	*0.00*		*ug/L*	*33.4*			*79-162*			
LCS (B4K0970-BS1)				*Prepared: 11/24/2014 14:00 Analyzed: 11/25/2014 14:46*						
1,2,4-Trichlorobenzene	49.9	5.00	ug/L	50.0		100	36-97			S
o-Dichlorobenzene (1,2-Dichlorobenzene)	46.8	5.00	ug/L	50.0		94	25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	44.8	5.00	ug/L	50.0		90	24-101			
Benzo(a)pyrene	64.9	10.0	ug/L	50.0		130	49-124			S
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	64.6	10.0	ug/L	50.0		129	46-122			S
Hexachlorocyclopentadiene	48.3	25.0	ug/L	50.0		97	19-112			
Pentachlorophenol	53.9	100	ug/L	50.0		108	37-120			
Surrogate: 2-Fluorophenol	*20.7*		*ug/L*	*33.4*		*62*	*4-108*			
Surrogate: Phenol-d5	*16.3*		*ug/L*	*33.4*		*49*	*1-101*			
Surrogate: Nitrobenzene-d5	*36.0*		*ug/L*	*33.4*		*108*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*35.5*		*ug/L*	*33.4*		*106*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*39.1*		*ug/L*	*33.4*		*117*	*11-102*			*S*

Response to 1st RTP
CWLP - 02559

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K0970 - SW3510 *(Continued)*										
LCS (B4K0970-BS1) (Continued)				*Prepared: 11/24/2014 14:00*			*Analyzed: 11/25/2014 14:46*			
Surrogate: 4-Terphenyl-d14	*48.7*		*ug/L*	*33.4*		*146*	*79-162*			
LCS (B4K0970-BS2)				*Prepared: 11/24/2014 14:00*			*Analyzed: 11/25/2014 22:03*			
1,2,4-Trichlorobenzene	< 0.637	5.00	ug/L				36-97			
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.662	5.00	ug/L				25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.617	5.00	ug/L				24-101			
Benzo(a)pyrene	< 0.754	10.0	ug/L				49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 2.81	10.0	ug/L				46-122			
Hexachlorocyclopentadiene	< 2.24	25.0	ug/L				19-112			
Pentachlorophenol	< 19.0	100	ug/L				37-120			
Surrogate: 2-Fluorophenol	*0.00*		*ug/L*	*33.4*			*4-108*			
Surrogate: Phenol-d5	*0.00*		*ug/L*	*33.4*			*1-101*			
Surrogate: Nitrobenzene-d5	*0.00*		*ug/L*	*33.4*			*23-119*			
Surrogate: 2-Fluorobiphenyl	*0.00*		*ug/L*	*33.4*			*28-124*			
Surrogate: 2,4,6-Tribromophenol	*0.00*		*ug/L*	*33.4*			*11-102*			
Surrogate: 4-Terphenyl-d14	*0.00*		*ug/L*	*33.4*			*79-162*			
LCS Dup (B4K0970-BSD1)				*Prepared: 11/24/2014 14:00*			*Analyzed: 11/25/2014 15:31*			
1,2,4-Trichlorobenzene	52.7	5.00	ug/L	50.0		105	36-97	5	20	S
o-Dichlorobenzene (1,2-Dichlorobenzene)	49.6	5.00	ug/L	50.0		99	25-101	6	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	48.4	5.00	ug/L	50.0		97	24-101	8	20	
Benzo(a)pyrene	65.8	10.0	ug/L	50.0		132	49-124	1	20	S
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	61.8	10.0	ug/L	50.0		124	46-122	4	20	S
Hexachlorocyclopentadiene	52.4	25.0	ug/L	50.0		105	19-112	8	20	
Pentachlorophenol	56.2	100	ug/L	50.0		112	37-120	4	20	
Surrogate: 2-Fluorophenol	*22.8*		*ug/L*	*33.4*		*68*	*4-108*			
Surrogate: Phenol-d5	*18.1*		*ug/L*	*33.4*		*54*	*1-101*			
Surrogate: Nitrobenzene-d5	*36.9*		*ug/L*	*33.4*		*111*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*38.4*		*ug/L*	*33.4*		*115*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*41.0*		*ug/L*	*33.4*		*123*	*11-102*			*S*
Surrogate: 4-Terphenyl-d14	*48.7*		*ug/L*	*33.4*		*146*	*79-162*			
Batch: B4K1106 - SW3510										
Blank (B4K1106-BLK1)				*Prepared: 11/26/2014 10:00*			*Analyzed: 12/01/2014 15:22*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B4K1106 - SW3510 *(Continued)*										
Blank (B4K1106-BLK1) (Continued)				*Prepared: 11/26/2014 10:00*			*Analyzed: 12/01/2014 15:22*			
Surrogate: 2-Fluorophenol	*13.4*		*ug/L*	*33.4*		*40*	*4-108*			
Surrogate: Phenol-d5	*7.87*		*ug/L*	*33.4*		*24*	*1-101*			
Surrogate: Nitrobenzene-d5	*21.5*		*ug/L*	*33.4*		*64*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*25.6*		*ug/L*	*33.4*		*77*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*17.6*		*ug/L*	*33.4*		*53*	*11-102*			
Surrogate: 4-Terphenyl-d14	*32.7*		*ug/L*	*33.4*		*98*	*79-162*			
LCS (B4K1106-BS1)				*Prepared: 11/26/2014 10:00*			*Analyzed: 12/01/2014 16:07*			
1,2,4-Trichlorobenzene	33.4	5.00	ug/L	50.0		67	36-97			
o-Dichlorobenzene (1,2-Dichlorobenzene)	33.0	5.00	ug/L	50.0		66	25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	31.5	5.00	ug/L	50.0		63	24-101			
Benzo(a)pyrene	50.7	10.0	ug/L	50.0		101	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	37.9	10.0	ug/L	50.0		76	46-122			
Hexachlorocyclopentadiene	24.6	25.0	ug/L	50.0		49	19-112			
Pentachlorophenol	36.4	100	ug/L	50.0		73	37-120			
Surrogate: 2-Fluorophenol	*14.0*		*ug/L*	*33.4*		*42*	*4-108*			
Surrogate: Phenol-d5	*9.12*		*ug/L*	*33.4*		*27*	*1-101*			
Surrogate: Nitrobenzene-d5	*21.8*		*ug/L*	*33.4*		*65*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*27.0*		*ug/L*	*33.4*		*81*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*26.4*		*ug/L*	*33.4*		*79*	*11-102*			
Surrogate: 4-Terphenyl-d14	*35.9*		*ug/L*	*33.4*		*108*	*79-162*			
LCS Dup (B4K1106-BSD1)				*Prepared: 11/26/2014 10:00*			*Analyzed: 12/01/2014 16:52*			
1,2,4-Trichlorobenzene	35.7	5.00	ug/L	50.0		71	36-97	7	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	34.7	5.00	ug/L	50.0		69	25-101	5	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	32.8	5.00	ug/L	50.0		66	24-101	4	20	
Benzo(a)pyrene	46.2	10.0	ug/L	50.0		92	49-124	9	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	35.2	10.0	ug/L	50.0		70	46-122	7	20	
Hexachlorocyclopentadiene	28.1	25.0	ug/L	50.0		56	19-112	14	20	
Pentachlorophenol	32.7	100	ug/L	50.0		65	37-120	11	20	
Surrogate: 2-Fluorophenol	*14.2*		*ug/L*	*33.4*		*42*	*4-108*			
Surrogate: Phenol-d5	*9.86*		*ug/L*	*33.4*		*30*	*1-101*			
Surrogate: Nitrobenzene-d5	*22.1*		*ug/L*	*33.4*		*66*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*28.2*		*ug/L*	*33.4*		*85*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*27.9*		*ug/L*	*33.4*		*84*	*11-102*			
Surrogate: 4-Terphenyl-d14	*33.6*		*ug/L*	*33.4*		*101*	*79-162*			

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: '[none]'										
BLK (BATCH-BLK1 (Water))				*Prepared:*	*Analyzed:*					
Dalapon	< 0.1217	0.5	ug/L				0-0		0	
BS (BATCH-BS1 (Water))				*Prepared:*	*Analyzed:*					
Dalapon	< 0.1217	0.5	ug/L				70-130		20	
BSD (BATCH-BSD1 (Water))				*Prepared:*	*Analyzed:*					
Dalapon	< 0.1217	0.5	ug/L				70-130		20	
MS (BATCH-MS1 (Water))				*Prepared:*	*Analyzed:*					
Dalapon	< 0.1217	0.5	ug/L				70-130		20	
MSD (BATCH-MSD1 (Water))				*Prepared:*	*Analyzed:*					
Dalapon	< 0.1217	0.5	ug/L				70-130		20	

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
Fourth Quarter 2014
Work Order: 14K0275

Report Date: 12/29/2014
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: '[none]'										
BLK (BATCH-BLK1 (Water))				*Prepared:*	*Analyzed:*					
Endothall	< 10.3094	31	ug/L				0-0		0	
BS (BATCH-BS1 (Water))				*Prepared:*	*Analyzed:*					
Endothall	< 10.3094	31	ug/L				50-150		50	
BSD (BATCH-BSD1 (Water))				*Prepared:*	*Analyzed:*					
Endothall	< 10.3094	31	ug/L				50-150		50	
MS (BATCH-MS1 (Water))				*Prepared:*	*Analyzed:*					
Endothall	< 10.3094	31	ug/L				50-150		50	
MSD (BATCH-MSD1 (Water))				*Prepared:*	*Analyzed:*					
Endothall	< 10.3094	31	ug/L				50-150		50	

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report

Analyte	CAS #	Certifications
E420.1 Rev.1978 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	ISO,AKDEC,WDNR,DoD,ILEPA
Barium	7440-39-3	ISO,AKDEC,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	ISO,AKDEC,WDNR,DoD,ILEPA
Chromium	7440-47-3	ISO,AKDEC,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,WDNR,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	ISO,AKDEC,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Nickel	7440-02-0	ISO,AKDEC,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	ISO,WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR
SW8082A in Water		

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water (Continued)		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Benzene	71-43-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,ILEPA,DoD
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,ILEPA,DoD
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,ILEPA,DoD
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Styrene	100-42-5	LELAP,WDNR,ILEPA,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Toluene	108-88-3	AKDEC,LELAP,WDNR,ILEPA,DoD
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,ILEPA,DoD
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,ILEPA,DoD
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321A in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem in Water		
Cyanide	57-12-5	DoD,ILEPA,WDNR

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2015
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAC Accredited Lab No. 100256	003041	07/27/2015
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAC Accredited Lab No. 171344	05015	06/30/2015
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2015

Environmental
Monitoring and
Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Qualifiers and Definitions

Item	Description
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 14K0275

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone: (217) 757-8610	Fax: (217) 757-8615
Tracking Number	
Sampler: F. Orranta	Sample Signature:

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5
Expedited (days):
Due Date: 12/1/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AW-2	11-21-14	0835	G	W	19	3	1	3	10	1	1					1 GBCDEFGHIJSKLMNOPQRS

Relinquished By	Date/Time 1400	Received By Patrick Baker	Date/Time 11-21-14 1400	Sample Kit Prepared By	Date/Time
Relinquished By Patrick Baker	Date/Time 11-21-14 1430	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By 11/21/14	Date/Time 1430		
Cooler Numbers and Temperatures 4					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 14K0275

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: A-Safran	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5
Expedited (days):
Due Date: 12/1/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AP-1	11/21/14	12:15	G	W	19	3	1	3	10	1	1					02-ABCDEFGHIJS ELMWOOD-S

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	11/21/14 17:05				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time		
		11/21/14	17:05		
Cooler Numbers and Temperatures: 4					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

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COC Number

Lab Work Order Number 14K0275

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Drahuns	Sampler Signature: Patrick Bahn

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SN; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 12/1/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AP-2	11-21-14	0925	G	W	19	3	1	3	10	1	1					3A BCDEFGHI SK LMNOPQRS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Bahn	11-21-14 1430				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By 11/21/14	Date/Time 1430		
Cooler Numbers and Temperatures: 4					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

CHAIN OF CUSTODY

Environmental Monitoring and Technologies
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COC Number

Lab Work Order Number 14K0275

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Brahmer	Sampler Signature: Patrick Bahr

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM25108::SN; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 12/1/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	2					
AP-3	11-21-14	0820	G	W	19	3	1	3	10	1	1					4ABCDEFGH IJKLMNOPQRS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Bahr	11-21-14 1430				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By: [signature] 11/21/14	Date/Time 14:30		
Cooler Numbers and Temperatures: 4					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

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COC Number

Lab Work Order Number 14K0275

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: S.D. Suhajda	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SN; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 12/1/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AP-4	11/21/14	09:15	G	W	19	3	1	3	10	1	1	05ABCDEFGH IJKLMNOPQ RS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	11/21/14 11:20	Patrick Bol	11-21-14 1106		
Relinquished By: Patrick Bol	Date/Time 11-21-14 1430	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time		
Cooler Numbers and Temperatures: 4					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

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COC Number

Lab Work Order Number 14K0275

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: F. Granter	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 12/1/2014 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AP-5	11-21-14	1145	G	W	19	3	1	3	10	1	1	06ABCDEFGHI 3KLMNOPQRS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	11-21-14 1330		11/21/14 1330		
Relinquished By	Date/Time 11/21/14 1705	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 11/21/14 17:05		
Cooler Numbers and Temperatures: 4					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

March 31, 2015

Work Order: 15B0481

RE: List G20
First Quarter 2015

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 3/31/2015 3:16:41PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	15B0481-01	Groundwater	02/24/15 11:20	02/24/15 14:25
AP-1	15B0481-02	Groundwater	02/24/15 10:10	02/24/15 14:25
AP-2	15B0481-03	Groundwater	02/24/15 09:15	02/24/15 14:25
AP-3	15B0481-04	Groundwater	02/24/15 08:45	02/24/15 14:25
AP-4	15B0481-05	Groundwater	02/24/15 08:15	02/24/15 14:25
AP-5	15B0481-06	Groundwater	02/24/15 08:00	02/24/15 14:25
AW-3	15B0481-01	Groundwater	02/24/15 11:20	02/24/15 14:25
AP-1	15B0481-02	Groundwater	02/24/15 10:10	02/24/15 14:25
AP-2	15B0481-03	Groundwater	02/24/15 09:15	02/24/15 14:25
AP-3	15B0481-04	Groundwater	02/24/15 08:45	02/24/15 14:25
AP-4	15B0481-05	Groundwater	02/24/15 08:15	02/24/15 14:25
AP-5	15B0481-06	Groundwater	02/24/15 08:00	02/24/15 14:25

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Case Narrative

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Date: 03/31/2015

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Work Order: 15B0481

The samples were received on 2/24/2015 2:25:00 PM . The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 3.6 degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided.

GC/MS volatiles:

Method: 8260B_VOC, B5B0917-BLK1: The recovery for one surrogate compound was slightly above the limit.

C/MS Semivolatiles:

Method: 8270_SVOC, B5B1026-BLK1: Bis(2-ethylhexyl) phthalate was detected in the Method Blank above MDL but below MRL. Sample detects are flagged accordingly.

Method: 8270_SVOC, B5B1026-BS1/BSD1: The %Recoveries for LCS/LCSD for various compounds were biased high outside laboratory QC limits. The QC is acceptable.

Method:8270_SVOC, B5B1026-MS1/MSD1: MS/MSD recoveries are outside the QC limits due to matrix. The LCS/LCSD associated with these samples are acceptable.

GC Semivolatiles:

Method: 8081A_PEST, 15B0481-03,06 : The recovery for one surrogate compound was below the laboratory QC limits.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AW-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 11:20
Matrix: Groundwater
Lab ID: 15B0481-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**495.85**			No unit	02/24/15 11:20	B5B1060	FO1
Depth to water (feet below land surface)	**8.80**			No unit	02/24/15 11:20	B5B1060	FO1
Depth to water (feet from measuring point)	**11.25**			No unit	02/24/15 11:20	B5B1060	FO1
Elevation of groundwater surface (Feet)	**529.08**			No unit	02/24/15 11:20	B5B1060	FO1
Method: SM2510B							
Specific Conductance	**784**	0.00		uS/cm	02/24/15 11:20	B5B1060	FO1
Method: SM2550-B							
Temperature	**56.0**			°F	02/24/15 11:20	B5B1060	FO1
Method: SM4500-H							
pH	**7.04**	0.05		pH Units	02/24/15 11:20	B5B1060	FO1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Arsenic	**0.105**	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Barium	**0.166**	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Beryllium	< 0.00312	0.00312		mg/L	02/26/15 12:17	B5B0960	AG
Boron	**0.145**	0.0156		mg/L	02/26/15 12:17	B5B0960	AG
Cadmium	< 0.00312	0.00312		mg/L	02/26/15 12:17	B5B0960	AG
Chromium	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Cobalt	< 0.0156	0.0156		mg/L	02/26/15 12:17	B5B0960	AG
Copper	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Iron	**9.10**	0.625		mg/L	02/26/15 12:17	B5B0960	AG
Lead	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Manganese	**0.217**	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Nickel	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Selenium	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Silver	< 0.00312	0.00312		mg/L	02/26/15 12:17	B5B0960	AG
Thallium	< 0.0312	0.0312		mg/L	02/26/15 12:17	B5B0960	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	03/02/15 15:18	B5C0025	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**25.3**	2.00		mg/L	02/25/15 20:46	B5B0911	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AW-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 11:20
Matrix: Groundwater
Lab ID: 15B0481-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Fluoride	< 0.500	0.500		mg/L		02/25/15 20:46	B5B0911	GSB
Nitrogen, Nitrate	**0.890**	0.500		mg/L		02/25/15 20:46	B5B0911	GSB
Sulfate	**5.62**	5.00		mg/L		02/25/15 20:46	B5B0911	GSB
Wet Chemistry								
Method: E420.1 Rev.1978 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		02/25/15 14:52	B5B0940	ML3
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**420**	10.0		mg/L		02/27/15 08:05	B5B1030	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/02/15 15:24	B5C0029	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.328	0.328		ug/L		02/27/15 17:47	B5B0969	LP
Atrazine	< 0.328	0.328		ug/L		02/27/15 17:47	B5B0969	LP
Chlordane	< 0.328	0.328		ug/L		02/27/15 17:47	B5B0969	LP
Endrin	< 0.197	0.197		ug/L		02/27/15 17:47	B5B0969	LP
Lindane	< 0.197	0.197		ug/L		02/27/15 17:47	B5B0969	LP
Heptachlor	< 0.197	0.197		ug/L		02/27/15 17:47	B5B0969	LP
Heptachlor epoxide	< 0.197	0.197		ug/L		02/27/15 17:47	B5B0969	LP
Methoxychlor	< 0.197	0.197		ug/L		02/27/15 17:47	B5B0969	LP
Simazine	< 0.328	0.328		ug/L		02/27/15 17:47	B5B0969	LP
Toxaphene	< 0.985	0.985		ug/L		02/27/15 17:47	B5B0969	LP
Surrogate: Decachlorobiphenyl				*Recovery: 69%*	*Limits: 30-135*	*02/27/15 17:47*	*B5B0969*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 44-124*	*02/27/15 17:47*	*B5B0969*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.164	0.164		ug/L		02/26/15 23:31	B5B0970	NCH
Aroclor 1221	< 0.263	0.263		ug/L		02/26/15 23:31	B5B0970	NCH
Aroclor 1232	< 0.328	0.328		ug/L		02/26/15 23:31	B5B0970	NCH
Aroclor 1242	< 0.328	0.328		ug/L		02/26/15 23:31	B5B0970	NCH
Aroclor 1248	< 0.328	0.328		ug/L		02/26/15 23:31	B5B0970	NCH
Aroclor 1254	< 0.263	0.263		ug/L		02/26/15 23:31	B5B0970	NCH
Aroclor 1260	< 0.164	0.164		ug/L		02/26/15 23:31	B5B0970	NCH
Total PCB	< 0.328	0.328		ug/L		02/26/15 23:31	B5B0970	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 85%*	*Limits: 40-135*	*02/26/15 23:31*	*B5B0970*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 56%*	*Limits: 13-133*	*02/26/15 23:31*	*B5B0970*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AW-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 11:20
Matrix: Groundwater
Lab ID: 15B0481-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/15 14:03	B5C0034	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/15 14:03	B5C0034	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.250	0.250		ug/L		02/27/15 00:40	B5B0951	MNN
2,4-D	< 0.250	0.250		ug/L		02/27/15 00:40	B5B0951	MNN
Dinoseb	< 0.250	0.250		ug/L		02/28/15 00:05	B5B0951	MNN
Picloram	< 0.250	0.250		ug/L		02/27/15 00:40	B5B0951	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 44%*	*Limits: 20-138*	*02/27/15 00:40*	*B5B0951*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Benzene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		02/24/15 17:17	B5B0917	JL
Chlorobenzene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 17:17	B5B0917	JL
Ethylbenzene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Dichloromethane	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Styrene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Tetrachloroethene	< 4.00	4.00		ug/L		02/24/15 17:17	B5B0917	JL
Toluene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 17:17	B5B0917	JL
Trichloroethene	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Vinyl chloride	< 2.00	2.00		ug/L		02/24/15 17:17	B5B0917	JL
Xylenes, Total	< 8.00	8.00		ug/L		02/24/15 17:17	B5B0917	JL
Surrogate: Dibromofluoromethane				*Recovery: 111%*	*Limits: 80-119*	*02/24/15 17:17*	*B5B0917*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 109%*	*Limits: 81-118*	*02/24/15 17:17*	*B5B0917*	*JL*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*02/24/15 17:17*	*B5B0917*	*JL*
Surrogate: Toluene-d8				*Recovery: 95%*	*Limits: 89-112*	*02/24/15 17:17*	*B5B0917*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*	*02/24/15 17:17*	*B5B0917*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 108%*	*Limits: 70-120*	*02/24/15 17:17*	*B5B0917*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AW-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 11:20
Matrix: Groundwater
Lab ID: 15B0481-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		03/02/15 20:19	B5C0151	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		03/02/15 20:19	B5C0151	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/03/15 13:40	B5C0064	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 113%*	*Limits: 70-130*	*03/03/15 13:40*	*B5C0064*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		03/03/15 06:33	B5B1097	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 106%*	*Limits: 20-200*	*03/03/15 06:33*	*B5B1097*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.650	0.650		ug/L		02/28/15 03:44	B5B1026	JN1
o-Dichlorobenzene	< 0.650	0.650		ug/L		02/28/15 03:44	B5B1026	JN1
p-Dichlorobenzene	< 0.650	0.650		ug/L		02/28/15 03:44	B5B1026	JN1
Benzo(a)pyrene	< 1.30	1.30		ug/L		02/28/15 03:44	B5B1026	JN1
Di(2-ethylhexyl)phthalate	**2.68**	1.30		ug/L		02/28/15 03:44	B5B1026	JN1
Hexachlorocyclopentadiene	< 3.25	3.25		ug/L		02/28/15 03:44	B5B1026	JN1
Pentachlorophenol	< 13.0	13.0		ug/L		02/28/15 03:44	B5B1026	JN1
Surrogate: 2-Fluorophenol				*Recovery: 26%*	*Limits: 4-108*	*02/28/15 03:44*	*B5B1026*	*JN1*
Surrogate: Phenol-d5				*Recovery: 17%*	*Limits: 1-101*	*02/28/15 03:44*	*B5B1026*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 63%*	*Limits: 23-119*	*02/28/15 03:44*	*B5B1026*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 65%*	*Limits: 28-124*	*02/28/15 03:44*	*B5B1026*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 11-102*	*02/28/15 03:44*	*B5B1026*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 105%*	*Limits: 79-162*	*02/28/15 03:44*	*B5B1026*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.8**	1		pCi/L		03/18/15 00:00	UL
Radium-228	**0.87**	1		pCi/L		03/18/15 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-1
Report Date: 03/31/2015
Collection Date: 02/24/2015 10:10
Matrix: Groundwater
Lab ID: 15B0481-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**506.47**			No unit	02/24/15 10:10	B5B1060	PB
Depth to water (feet below land surface)	**7.98**			No unit	02/24/15 10:10	B5B1060	PB
Depth to water (feet from measuring point)	**10.31**			No unit	02/24/15 10:10	B5B1060	PB
Elevation of groundwater surface (Feet)	**527.49**			No unit	02/24/15 10:10	B5B1060	PB
Method: SM2510B							
Specific Conductance	**1540**	0.00		uS/cm	02/24/15 10:10	B5B1060	PB
Method: SM2550-B							
Temperature	**51.7**			°F	02/24/15 10:10	B5B1060	PB
Method: SM4500-H							
pH	**6.73**	0.05		pH Units	02/24/15 10:10	B5B1060	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Arsenic	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Barium	**0.683**	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Beryllium	< 0.00312	0.00312		mg/L	02/26/15 12:19	B5B0960	AG
Boron	**17.9**	0.156		mg/L	02/26/15 13:44	B5B0960	AG
Cadmium	< 0.00312	0.00312		mg/L	02/26/15 12:19	B5B0960	AG
Chromium	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Cobalt	< 0.0156	0.0156		mg/L	02/26/15 12:19	B5B0960	AG
Copper	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Iron	**25.8**	0.625		mg/L	02/26/15 12:19	B5B0960	AG
Lead	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Manganese	**0.319**	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Nickel	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Selenium	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Silver	< 0.00312	0.00312		mg/L	02/26/15 12:19	B5B0960	AG
Thallium	< 0.0312	0.0312		mg/L	02/26/15 12:19	B5B0960	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	03/02/15 15:20	B5C0025	MLB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**46.9**	2.00		mg/L	02/25/15 13:50	B5B0911	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-1
Report Date: 03/31/2015
Collection Date: 02/24/2015 10:10
Matrix: Groundwater
Lab ID: 15B0481-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	02/25/15 13:50	B5B0911	GSB
Nitrogen, Nitrate	**0.550**	0.500		mg/L	02/25/15 13:50	B5B0911	GSB
Sulfate	**504**	50.0		mg/L	03/08/15 17:38	B5C0269	wcicu
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	02/25/15 14:52	B5B0940	ML3
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1230**	10.0		mg/L	02/27/15 08:05	B5B1030	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	03/02/15 15:24	B5C0029	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.330	0.330		ug/L	02/27/15 18:33	B5B0969	LP
Atrazine	< 0.330	0.330		ug/L	02/27/15 18:33	B5B0969	LP
Chlordane	< 0.330	0.330		ug/L	02/27/15 18:33	B5B0969	LP
Endrin	< 0.198	0.198		ug/L	02/27/15 18:33	B5B0969	LP
Lindane	< 0.198	0.198		ug/L	02/27/15 18:33	B5B0969	LP
Heptachlor	< 0.198	0.198		ug/L	02/27/15 18:33	B5B0969	LP
Heptachlor epoxide	< 0.198	0.198		ug/L	02/27/15 18:33	B5B0969	LP
Methoxychlor	< 0.198	0.198		ug/L	02/27/15 18:33	B5B0969	LP
Simazine	< 0.330	0.330		ug/L	02/27/15 18:33	B5B0969	LP
Toxaphene	< 0.990	0.990		ug/L	02/27/15 18:33	B5B0969	LP
Surrogate: Decachlorobiphenyl				*Recovery: 119%* *Limits: 30-135*	*02/27/15 18:33*	*B5B0969*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 63%* *Limits: 44-124*	*02/27/15 18:33*	*B5B0969*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.165	0.165		ug/L	02/26/15 23:58	B5B0970	NCH
Aroclor 1221	< 0.264	0.264		ug/L	02/26/15 23:58	B5B0970	NCH
Aroclor 1232	< 0.330	0.330		ug/L	02/26/15 23:58	B5B0970	NCH
Aroclor 1242	< 0.330	0.330		ug/L	02/26/15 23:58	B5B0970	NCH
Aroclor 1248	< 0.330	0.330		ug/L	02/26/15 23:58	B5B0970	NCH
Aroclor 1254	< 0.264	0.264		ug/L	02/26/15 23:58	B5B0970	NCH
Aroclor 1260	< 0.165	0.165		ug/L	02/26/15 23:58	B5B0970	NCH
Total PCB	< 0.330	0.330		ug/L	02/26/15 23:58	B5B0970	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 55%* *Limits: 40-135*	*02/26/15 23:58*	*B5B0970*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 30%* *Limits: 13-133*	*02/26/15 23:58*	*B5B0970*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-1
Report Date: 03/31/2015
Collection Date: 02/24/2015 10:10
Matrix: Groundwater
Lab ID: 15B0481-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/15 14:51	B5C0034	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/15 14:51	B5C0034	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		02/27/15 01:22	B5B0951	MNN
2,4-D	< 0.249	0.249		ug/L		02/27/15 01:22	B5B0951	MNN
Dinoseb	< 0.249	0.249		ug/L		02/28/15 00:47	B5B0951	MNN
Picloram	< 0.249	0.249		ug/L		02/27/15 01:22	B5B0951	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 33%*	*Limits: 20-138*	*02/27/15 01:22*	*B5B0951*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Benzene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		02/24/15 17:47	B5B0917	JL
Chlorobenzene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 17:47	B5B0917	JL
Ethylbenzene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Dichloromethane	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Styrene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Tetrachloroethene	< 4.00	4.00		ug/L		02/24/15 17:47	B5B0917	JL
Toluene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 17:47	B5B0917	JL
Trichloroethene	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Vinyl chloride	< 2.00	2.00		ug/L		02/24/15 17:47	B5B0917	JL
Xylenes, Total	< 8.00	8.00		ug/L		02/24/15 17:47	B5B0917	JL
Surrogate: Dibromofluoromethane				*Recovery: 112%*	*Limits: 80-119*	*02/24/15 17:47*	*B5B0917*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 108%*	*Limits: 81-118*	*02/24/15 17:47*	*B5B0917*	*JL*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*02/24/15 17:47*	*B5B0917*	*JL*
Surrogate: Toluene-d8				*Recovery: 94%*	*Limits: 89-112*	*02/24/15 17:47*	*B5B0917*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 85-114*	*02/24/15 17:47*	*B5B0917*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 110%*	*Limits: 70-120*	*02/24/15 17:47*	*B5B0917*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-1
Report Date: 03/31/2015
Collection Date: 02/24/2015 10:10
Matrix: Groundwater
Lab ID: 15B0481-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		03/02/15 20:50	B5C0151	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		03/02/15 20:50	B5C0151	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/03/15 15:35	B5C0064	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 120%*	*Limits: 70-130*	*03/03/15 15:35*	*B5C0064*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		03/03/15 07:17	B5B1097	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 75%*	*Limits: 20-200*	*03/03/15 07:17*	*B5B1097*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.650	0.650		ug/L		02/28/15 04:26	B5B1026	JN1
o-Dichlorobenzene	< 0.650	0.650		ug/L		02/28/15 04:26	B5B1026	JN1
p-Dichlorobenzene	< 0.650	0.650		ug/L		02/28/15 04:26	B5B1026	JN1
Benzo(a)pyrene	< 1.30	1.30		ug/L		02/28/15 04:26	B5B1026	JN1
Di(2-ethylhexyl)phthalate	**3.88**	1.30		ug/L		02/28/15 04:26	B5B1026	JN1
Hexachlorocyclopentadiene	< 3.25	3.25		ug/L		02/28/15 04:26	B5B1026	JN1
Pentachlorophenol	< 13.0	13.0		ug/L		02/28/15 04:26	B5B1026	JN1
Surrogate: 2-Fluorophenol				*Recovery: 22%*	*Limits: 4-108*	*02/28/15 04:26*	*B5B1026*	*JN1*
Surrogate: Phenol-d5				*Recovery: 16%*	*Limits: 1-101*	*02/28/15 04:26*	*B5B1026*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*02/28/15 04:26*	*B5B1026*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 53%*	*Limits: 28-124*	*02/28/15 04:26*	*B5B1026*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 64%*	*Limits: 11-102*	*02/28/15 04:26*	*B5B1026*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 120%*	*Limits: 79-162*	*02/28/15 04:26*	*B5B1026*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses						
Method: SM7500						
Radium-226	**2.4**	1	pCi/L	03/18/15 00:00		UL
Radium-228	**0.82**	1	pCi/L	03/18/15 00:00		UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-2
Report Date: 03/31/2015
Collection Date: 02/24/2015 09:15
Matrix: Groundwater
Lab ID: 15B0481-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**520.52**			No unit	02/24/15 09:15	B5B1060	PB
Depth to water (feet below land surface)	**4.35**			No unit	02/24/15 09:15	B5B1060	PB
Depth to water (feet from measuring point)	**6.77**			No unit	02/24/15 09:15	B5B1060	PB
Elevation of groundwater surface (Feet)	**533.53**			No unit	02/24/15 09:15	B5B1060	PB
Method: SM2510B							
Specific Conductance	**1540**	0.00		uS/cm	02/24/15 09:15	B5B1060	PB
Method: SM2550-B							
Temperature	**46.8**			°F	02/24/15 09:15	B5B1060	PB
Method: SM4500-H							
pH	**7.10**	0.05		pH Units	02/24/15 09:15	B5B1060	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Arsenic	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Barium	**0.241**	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Beryllium	< 0.00312	0.00312		mg/L	02/26/15 12:20	B5B0960	AG
Boron	**4.12**	0.0156		mg/L	02/26/15 12:20	B5B0960	AG
Cadmium	< 0.00312	0.00312		mg/L	02/26/15 12:20	B5B0960	AG
Chromium	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Cobalt	< 0.0156	0.0156		mg/L	02/26/15 12:20	B5B0960	AG
Copper	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Iron	**20.2**	0.625		mg/L	02/26/15 12:20	B5B0960	AG
Lead	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Manganese	**25.1**	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Nickel	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Selenium	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Silver	**0.0959**	0.00312		mg/L	02/26/15 12:20	B5B0960	AG
Thallium	< 0.0312	0.0312		mg/L	02/26/15 12:20	B5B0960	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	03/02/15 15:21	B5C0025	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**19.6**	2.00		mg/L	02/25/15 05:19	B5B0876	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-2
Report Date: 03/31/2015
Collection Date: 02/24/2015 09:15
Matrix: Groundwater
Lab ID: 15B0481-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	02/25/15 05:19	B5B0876	GSB
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/25/15 05:19	B5B0876	GSB
Sulfate	**497**	50.0		mg/L	02/26/15 00:14	B5B0911	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	02/25/15 14:52	B5B0940	ML3
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1250**	10.0		mg/L	02/27/15 08:05	B5B1030	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	03/02/15 15:24	B5C0029	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.326	0.326		ug/L	02/27/15 19:19	B5B0969	LP
Atrazine	< 0.326	0.326		ug/L	02/27/15 19:19	B5B0969	LP
Chlordane	< 0.326	0.326		ug/L	02/27/15 19:19	B5B0969	LP
Endrin	< 0.195	0.195		ug/L	02/27/15 19:19	B5B0969	LP
Lindane	< 0.195	0.195		ug/L	02/27/15 19:19	B5B0969	LP
Heptachlor	< 0.195	0.195		ug/L	02/27/15 19:19	B5B0969	LP
Heptachlor epoxide	< 0.195	0.195		ug/L	02/27/15 19:19	B5B0969	LP
Methoxychlor	< 0.195	0.195		ug/L	02/27/15 19:19	B5B0969	LP
Simazine	< 0.326	0.326		ug/L	02/27/15 19:19	B5B0969	LP
Toxaphene	< 0.977	0.977		ug/L	02/27/15 19:19	B5B0969	LP
Surrogate: Decachlorobiphenyl				*Recovery: 77%*	*Limits: 30-135*	*02/27/15 19:19*	*B5B0969*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 40%*	*Limits: 44-124*	*02/27/15 19:19*	*B5B0969*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.163	0.163		ug/L	02/27/15 00:25	B5B0970	NCH
Aroclor 1221	< 0.260	0.260		ug/L	02/27/15 00:25	B5B0970	NCH
Aroclor 1232	< 0.326	0.326		ug/L	02/27/15 00:25	B5B0970	NCH
Aroclor 1242	< 0.326	0.326		ug/L	02/27/15 00:25	B5B0970	NCH
Aroclor 1248	< 0.326	0.326		ug/L	02/27/15 00:25	B5B0970	NCH
Aroclor 1254	< 0.260	0.260		ug/L	02/27/15 00:25	B5B0970	NCH
Aroclor 1260	< 0.163	0.163		ug/L	02/27/15 00:25	B5B0970	NCH
Total PCB	< 0.326	0.326		ug/L	02/27/15 00:25	B5B0970	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 94%*	*Limits: 40-135*	*02/27/15 00:25*	*B5B0970*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 52%*	*Limits: 13-133*	*02/27/15 00:25*	*B5B0970*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-2
Report Date: 03/31/2015
Collection Date: 02/24/2015 09:15
Matrix: Groundwater
Lab ID: 15B0481-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/15 15:28	B5C0034	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/15 15:28	B5C0034	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.250	0.250		ug/L		02/27/15 02:05	B5B0951	MNN
2,4-D	< 0.250	0.250		ug/L		02/27/15 02:05	B5B0951	MNN
Dinoseb	< 0.250	0.250		ug/L		02/28/15 01:29	B5B0951	MNN
Picloram	< 0.250	0.250		ug/L		02/27/15 02:05	B5B0951	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 44%*	*Limits: 20-138*	*02/27/15 02:05*	*B5B0951*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Benzene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		02/24/15 18:16	B5B0917	JL
Chlorobenzene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 18:16	B5B0917	JL
Ethylbenzene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Dichloromethane	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Styrene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Tetrachloroethene	< 4.00	4.00		ug/L		02/24/15 18:16	B5B0917	JL
Toluene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 18:16	B5B0917	JL
Trichloroethene	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Vinyl chloride	< 2.00	2.00		ug/L		02/24/15 18:16	B5B0917	JL
Xylenes, Total	< 8.00	8.00		ug/L		02/24/15 18:16	B5B0917	JL
Surrogate: Dibromofluoromethane				*Recovery: 113%*	*Limits: 80-119*	*02/24/15 18:16*	*B5B0917*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 81-118*	*02/24/15 18:16*	*B5B0917*	*JL*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*02/24/15 18:16*	*B5B0917*	*JL*
Surrogate: Toluene-d8				*Recovery: 95%*	*Limits: 89-112*	*02/24/15 18:16*	*B5B0917*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 85-114*	*02/24/15 18:16*	*B5B0917*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 108%*	*Limits: 70-120*	*02/24/15 18:16*	*B5B0917*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-2
Report Date: 03/31/2015
Collection Date: 02/24/2015 09:15
Matrix: Groundwater
Lab ID: 15B0481-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		03/02/15 21:22	B5C0151	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		03/02/15 21:22	B5C0151	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/03/15 19:26	B5C0064	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 128%*	*Limits: 70-130*	*03/03/15 19:26*	*B5C0064*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		03/03/15 10:54	B5B1097	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 69%*	*Limits: 20-200*	*03/03/15 10:54*	*B5B1097*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.665	0.665		ug/L		02/28/15 05:07	B5B1026	JN1
o-Dichlorobenzene	< 0.665	0.665		ug/L		02/28/15 05:07	B5B1026	JN1
p-Dichlorobenzene	< 0.665	0.665		ug/L		02/28/15 05:07	B5B1026	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		02/28/15 05:07	B5B1026	JN1
Di(2-ethylhexyl)phthalate	**5.57**	1.33		ug/L		02/28/15 05:07	B5B1026	JN1
Hexachlorocyclopentadiene	< 3.32	3.32		ug/L		02/28/15 05:07	B5B1026	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		02/28/15 05:07	B5B1026	JN1
Surrogate: 2-Fluorophenol				*Recovery: 12%*	*Limits: 4-108*	*02/28/15 05:07*	*B5B1026*	*JN1*
Surrogate: Phenol-d5				*Recovery: 10%*	*Limits: 1-101*	*02/28/15 05:07*	*B5B1026*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 78%*	*Limits: 23-119*	*02/28/15 05:07*	*B5B1026*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 81%*	*Limits: 28-124*	*02/28/15 05:07*	*B5B1026*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 71%*	*Limits: 11-102*	*02/28/15 05:07*	*B5B1026*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 114%*	*Limits: 79-162*	*02/28/15 05:07*	*B5B1026*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**1.4**	1		pCi/L		03/18/15 00:00	UL
Radium-228	**0.7**	1		pCi/L		03/18/15 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:45
Matrix: Groundwater
Lab ID: 15B0481-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**516.55**			No unit	02/24/15 08:45	B5B1060	PB
Depth to water (feet below land surface)	**5.28**			No unit	02/24/15 08:45	B5B1060	PB
Depth to water (feet from measuring point)	**6.86**			No unit	02/24/15 08:45	B5B1060	PB
Elevation of groundwater surface (Feet)	**528.74**			No unit	02/24/15 08:45	B5B1060	PB
Method: SM2510B							
Specific Conductance	**1160**	0.00		uS/cm	02/24/15 08:45	B5B1060	PB
Method: SM2550-B							
Temperature	**49.5**			°F	02/24/15 08:45	B5B1060	PB
Method: SM4500-H							
pH	**6.98**	0.05		pH Units	02/24/15 08:45	B5B1060	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Arsenic	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Barium	**0.106**	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Beryllium	< 0.00312	0.00312		mg/L	02/26/15 12:22	B5B0960	AG
Boron	**17.8**	0.156		mg/L	02/26/15 13:46	B5B0960	AG
Cadmium	< 0.00312	0.00312		mg/L	02/26/15 12:22	B5B0960	AG
Chromium	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Cobalt	< 0.0156	0.0156		mg/L	02/26/15 12:22	B5B0960	AG
Copper	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Iron	**18.3**	0.625		mg/L	02/26/15 12:22	B5B0960	AG
Lead	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Manganese	**8.34**	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Nickel	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Selenium	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Silver	< 0.00312	0.00312		mg/L	02/26/15 12:22	B5B0960	AG
Thallium	< 0.0312	0.0312		mg/L	02/26/15 12:22	B5B0960	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	03/02/15 15:23	B5C0025	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**38.7**	2.00		mg/L	02/25/15 01:51	B5B0876	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:45
Matrix: Groundwater
Lab ID: 15B0481-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	02/25/15 01:51	B5B0876	GSB
Nitrogen, Nitrate	**7.11**	0.500		mg/L	02/25/15 01:51	B5B0876	GSB
Sulfate	**290**	50.0		mg/L	02/26/15 02:18	B5B0911	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	02/25/15 14:52	B5B0940	ML3
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**866**	10.0		mg/L	02/27/15 08:05	B5B1030	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	03/02/15 15:24	B5C0029	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.328	0.328		ug/L	02/27/15 20:06	B5B0969	LP
Atrazine	< 0.328	0.328		ug/L	02/27/15 20:06	B5B0969	LP
Chlordane	< 0.328	0.328		ug/L	02/27/15 20:06	B5B0969	LP
Endrin	< 0.197	0.197		ug/L	02/27/15 20:06	B5B0969	LP
Lindane	< 0.197	0.197		ug/L	02/27/15 20:06	B5B0969	LP
Heptachlor	< 0.197	0.197		ug/L	02/27/15 20:06	B5B0969	LP
Heptachlor epoxide	< 0.197	0.197		ug/L	02/27/15 20:06	B5B0969	LP
Methoxychlor	< 0.197	0.197		ug/L	02/27/15 20:06	B5B0969	LP
Simazine	< 0.328	0.328		ug/L	02/27/15 20:06	B5B0969	LP
Toxaphene	< 0.985	0.985		ug/L	02/27/15 20:06	B5B0969	LP
Surrogate: Decachlorobiphenyl				*Recovery: 115%*	*Limits: 30-135*	*02/27/15 20:06*	*B5B0969*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 58%*	*Limits: 44-124*	*02/27/15 20:06*	*B5B0969*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.164	0.164		ug/L	02/27/15 00:52	B5B0970	NCH
Aroclor 1221	< 0.263	0.263		ug/L	02/27/15 00:52	B5B0970	NCH
Aroclor 1232	< 0.328	0.328		ug/L	02/27/15 00:52	B5B0970	NCH
Aroclor 1242	< 0.328	0.328		ug/L	02/27/15 00:52	B5B0970	NCH
Aroclor 1248	< 0.328	0.328		ug/L	02/27/15 00:52	B5B0970	NCH
Aroclor 1254	< 0.263	0.263		ug/L	02/27/15 00:52	B5B0970	NCH
Aroclor 1260	< 0.164	0.164		ug/L	02/27/15 00:52	B5B0970	NCH
Total PCB	< 0.328	0.328		ug/L	02/27/15 00:52	B5B0970	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 77%*	*Limits: 40-135*	*02/27/15 00:52*	*B5B0970*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 40%*	*Limits: 13-133*	*02/27/15 00:52*	*B5B0970*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:45
Matrix: Groundwater
Lab ID: 15B0481-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/03/15 13:07	B5C0128	MNN
Carbofuran	< 2.00	2.00		ug/L		03/03/15 13:07	B5C0128	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.250	0.250		ug/L		02/27/15 02:47	B5B0951	MNN
2,4-D	< 0.250	0.250		ug/L		02/27/15 02:47	B5B0951	MNN
Dinoseb	< 0.250	0.250		ug/L		02/28/15 02:11	B5B0951	MNN
Picloram	< 0.250	0.250		ug/L		02/27/15 02:47	B5B0951	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 46%*	*Limits: 20-138*	*02/27/15 02:47*	*B5B0951*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Benzene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		02/24/15 18:46	B5B0917	JL
Chlorobenzene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 18:46	B5B0917	JL
Ethylbenzene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Dichloromethane	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Styrene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Tetrachloroethene	< 4.00	4.00		ug/L		02/24/15 18:46	B5B0917	JL
Toluene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 18:46	B5B0917	JL
Trichloroethene	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Vinyl chloride	< 2.00	2.00		ug/L		02/24/15 18:46	B5B0917	JL
Xylenes, Total	< 8.00	8.00		ug/L		02/24/15 18:46	B5B0917	JL
Surrogate: Dibromofluoromethane				*Recovery: 114%*	*Limits: 80-119*	*02/24/15 18:46*	*B5B0917*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 113%*	*Limits: 81-118*	*02/24/15 18:46*	*B5B0917*	*JL*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*02/24/15 18:46*	*B5B0917*	*JL*
Surrogate: Toluene-d8				*Recovery: 96%*	*Limits: 89-112*	*02/24/15 18:46*	*B5B0917*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 99%*	*Limits: 85-114*	*02/24/15 18:46*	*B5B0917*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 111%*	*Limits: 70-120*	*02/24/15 18:46*	*B5B0917*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-3
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:45
Matrix: Groundwater
Lab ID: 15B0481-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/02/15 21:53	B5C0151	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/02/15 21:53	B5C0151	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/03/15 20:04	B5C0064	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 127%*	*Limits: 70-130*	*03/03/15 20:04*	*B5C0064*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		03/03/15 11:38	B5B1097	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 92%*	*Limits: 20-200*	*03/03/15 11:38*	*B5B1097*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.661	0.661		ug/L		02/28/15 05:49	B5B1026	JN1
o-Dichlorobenzene	< 0.661	0.661		ug/L		02/28/15 05:49	B5B1026	JN1
p-Dichlorobenzene	< 0.661	0.661		ug/L		02/28/15 05:49	B5B1026	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		02/28/15 05:49	B5B1026	JN1
Di(2-ethylhexyl)phthalate	**3.44**	1.32		ug/L		02/28/15 05:49	B5B1026	JN1
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		02/28/15 05:49	B5B1026	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		02/28/15 05:49	B5B1026	JN1
Surrogate: 2-Fluorophenol				*Recovery: 7%*	*Limits: 4-108*	*02/28/15 05:49*	*B5B1026*	*JN1*
Surrogate: Phenol-d5				*Recovery: 6%*	*Limits: 1-101*	*02/28/15 05:49*	*B5B1026*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 46%*	*Limits: 23-119*	*02/28/15 05:49*	*B5B1026*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 50%*	*Limits: 28-124*	*02/28/15 05:49*	*B5B1026*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 51%*	*Limits: 11-102*	*02/28/15 05:49*	*B5B1026*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 114%*	*Limits: 79-162*	*02/28/15 05:49*	*B5B1026*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**1.4**	1		pCi/L		03/18/15 00:00	UL
Radium-228	**0.65**	1		pCi/L		03/18/15 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-4
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:15
Matrix: Groundwater
Lab ID: 15B0481-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**491.62**			No unit	02/24/15 08:15	B5B1060	PB
Depth to water (feet below land surface)	**6.94**			No unit	02/24/15 08:15	B5B1060	PB
Depth to water (feet from measuring point)	**12.25**			No unit	02/24/15 08:15	B5B1060	PB
Elevation of groundwater surface (Feet)	**542.35**			No unit	02/24/15 08:15	B5B1060	PB
Method: SM2510B							
Specific Conductance	**781**	0.00		uS/cm	02/24/15 08:15	B5B1060	PB
Method: SM2550-B							
Temperature	**52.3**			°F	02/24/15 08:15	B5B1060	PB
Method: SM4500-H							
pH	**6.82**	0.05		pH Units	02/24/15 08:15	B5B1060	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Arsenic	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Barium	**0.329**	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Beryllium	< 0.00312	0.00312		mg/L	02/26/15 12:24	B5B0960	AG
Boron	**0.105**	0.0156		mg/L	02/26/15 12:24	B5B0960	AG
Cadmium	< 0.00312	0.00312		mg/L	02/26/15 12:24	B5B0960	AG
Chromium	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Cobalt	< 0.0156	0.0156		mg/L	02/26/15 12:24	B5B0960	AG
Copper	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Iron	**11.7**	0.625		mg/L	02/26/15 12:24	B5B0960	AG
Lead	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Manganese	**0.139**	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Nickel	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Selenium	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Silver	< 0.00312	0.00312		mg/L	02/26/15 12:24	B5B0960	AG
Thallium	< 0.0312	0.0312		mg/L	02/26/15 12:24	B5B0960	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	03/02/15 15:25	B5C0025	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**10.8**	2.00		mg/L	02/24/15 20:18	B5B0876	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-4
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:15
Matrix: Groundwater
Lab ID: 15B0481-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	02/24/15 20:18	B5B0876	GSB
Nitrogen, Nitrate	**0.730**	0.500		mg/L	02/24/15 20:18	B5B0876	GSB
Sulfate	< 5.00	5.00		mg/L	02/24/15 20:18	B5B0876	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	02/25/15 14:52	B5B0940	ML3
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**486**	10.0		mg/L	02/27/15 08:05	B5B1030	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	**0.129**	0.010		mg/L	03/02/15 15:39	B5C0029	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.326	0.326		ug/L	02/27/15 20:53	B5B0969	LP
Atrazine	< 0.326	0.326		ug/L	02/27/15 20:53	B5B0969	LP
Chlordane	< 0.326	0.326		ug/L	02/27/15 20:53	B5B0969	LP
Endrin	< 0.195	0.195		ug/L	02/27/15 20:53	B5B0969	LP
Lindane	< 0.195	0.195		ug/L	02/27/15 20:53	B5B0969	LP
Heptachlor	< 0.195	0.195		ug/L	02/27/15 20:53	B5B0969	LP
Heptachlor epoxide	< 0.195	0.195		ug/L	02/27/15 20:53	B5B0969	LP
Methoxychlor	< 0.195	0.195		ug/L	02/27/15 20:53	B5B0969	LP
Simazine	< 0.326	0.326		ug/L	02/27/15 20:53	B5B0969	LP
Toxaphene	< 0.977	0.977		ug/L	02/27/15 20:53	B5B0969	LP
Surrogate: Decachlorobiphenyl				*Recovery: 81%*	*Limits: 30-135*	*02/27/15 20:53*	*B5B0969*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 44%*	*Limits: 44-124*	*02/27/15 20:53*	*B5B0969*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.163	0.163		ug/L	03/02/15 13:02	B5B0970	NCH
Aroclor 1221	< 0.261	0.261		ug/L	03/02/15 13:02	B5B0970	NCH
Aroclor 1232	< 0.326	0.326		ug/L	03/02/15 13:02	B5B0970	NCH
Aroclor 1242	< 0.326	0.326		ug/L	03/02/15 13:02	B5B0970	NCH
Aroclor 1248	< 0.326	0.326		ug/L	03/02/15 13:02	B5B0970	NCH
Aroclor 1254	< 0.261	0.261		ug/L	03/02/15 13:02	B5B0970	NCH
Aroclor 1260	< 0.163	0.163		ug/L	03/02/15 13:02	B5B0970	NCH
Total PCB	< 0.326	0.326		ug/L	03/02/15 13:02	B5B0970	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 89%*	*Limits: 40-135*	*03/02/15 13:02*	*B5B0970*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 54%*	*Limits: 13-133*	*03/02/15 13:02*	*B5B0970*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-4
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:15
Matrix: Groundwater
Lab ID: 15B0481-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/03/15 13:49	B5C0128	MNN
Carbofuran	< 2.00	2.00		ug/L		03/03/15 13:49	B5C0128	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.248	0.248		ug/L		02/27/15 03:29	B5B0951	MNN
2,4-D	< 0.248	0.248		ug/L		02/27/15 03:29	B5B0951	MNN
Dinoseb	< 0.248	0.248		ug/L		02/28/15 02:53	B5B0951	MNN
Picloram	< 0.248	0.248		ug/L		02/27/15 03:29	B5B0951	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 42%*	*Limits: 20-138*	*02/27/15 03:29*	*B5B0951*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Benzene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		02/24/15 19:16	B5B0917	JL
Chlorobenzene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 19:16	B5B0917	JL
Ethylbenzene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Dichloromethane	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Styrene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Tetrachloroethene	< 4.00	4.00		ug/L		02/24/15 19:16	B5B0917	JL
Toluene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 19:16	B5B0917	JL
Trichloroethene	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Vinyl chloride	< 2.00	2.00		ug/L		02/24/15 19:16	B5B0917	JL
Xylenes, Total	< 8.00	8.00		ug/L		02/24/15 19:16	B5B0917	JL
Surrogate: Dibromofluoromethane				*Recovery: 110%*	*Limits: 80-119*	*02/24/15 19:16*	*B5B0917*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 113%*	*Limits: 81-118*	*02/24/15 19:16*	*B5B0917*	*JL*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*02/24/15 19:16*	*B5B0917*	*JL*
Surrogate: Toluene-d8				*Recovery: 95%*	*Limits: 89-112*	*02/24/15 19:16*	*B5B0917*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 96%*	*Limits: 85-114*	*02/24/15 19:16*	*B5B0917*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 110%*	*Limits: 70-120*	*02/24/15 19:16*	*B5B0917*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-4
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:15
Matrix: Groundwater
Lab ID: 15B0481-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/02/15 22:24	B5C0151	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/02/15 22:24	B5C0151	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/03/15 20:42	B5C0064	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 128%*	*Limits: 70-130*	*03/03/15 20:42*	*B5C0064*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		03/03/15 12:21	B5B1097	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 98%*	*Limits: 20-200*	*03/03/15 12:21*	*B5B1097*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.651	0.651		ug/L		02/28/15 06:30	B5B1026	JN1
o-Dichlorobenzene	< 0.651	0.651		ug/L		02/28/15 06:30	B5B1026	JN1
p-Dichlorobenzene	< 0.651	0.651		ug/L		02/28/15 06:30	B5B1026	JN1
Benzo(a)pyrene	< 1.30	1.30		ug/L		02/28/15 06:30	B5B1026	JN1
Di(2-ethylhexyl)phthalate	**3.68**	1.30		ug/L		02/28/15 06:30	B5B1026	JN1
Hexachlorocyclopentadiene	< 3.25	3.25		ug/L		02/28/15 06:30	B5B1026	JN1
Pentachlorophenol	< 13.0	13.0		ug/L		02/28/15 06:30	B5B1026	JN1
Surrogate: 2-Fluorophenol				*Recovery: 19%*	*Limits: 4-108*	*02/28/15 06:30*	*B5B1026*	*JN1*
Surrogate: Phenol-d5				*Recovery: 12%*	*Limits: 1-101*	*02/28/15 06:30*	*B5B1026*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 44%*	*Limits: 23-119*	*02/28/15 06:30*	*B5B1026*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 49%*	*Limits: 28-124*	*02/28/15 06:30*	*B5B1026*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 74%*	*Limits: 11-102*	*02/28/15 06:30*	*B5B1026*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 122%*	*Limits: 79-162*	*02/28/15 06:30*	*B5B1026*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.86**	1		pCi/L		03/18/15 00:00	UL
Radium-228	**0.67**	1		pCi/L		03/18/15 00:00	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-5
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:00
Matrix: Groundwater
Lab ID: 15B0481-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**552.51**			No unit	02/24/15 08:00	B5B1060	FO1
Depth to water (feet below land surface)	**12.50**			No unit	02/24/15 08:00	B5B1060	FO1
Depth to water (feet from measuring point)	**12.52**			No unit	02/24/15 08:00	B5B1060	FO1
Elevation of groundwater surface (Feet)	**571.38**			No unit	02/24/15 08:00	B5B1060	FO1
Method: SM2510B							
Specific Conductance	**646**	0.00		uS/cm	02/24/15 08:00	B5B1060	FO1
Method: SM2550-B							
Temperature	**43.2**			°F	02/24/15 08:00	B5B1060	FO1
Method: SM4500-H							
pH	**7.32**	0.05		pH Units	02/24/15 08:00	B5B1060	FO1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Arsenic	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Barium	**0.0846**	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Beryllium	< 0.00312	0.00312		mg/L	02/26/15 12:26	B5B0960	AG
Boron	**0.0383**	0.0156		mg/L	02/26/15 12:26	B5B0960	AG
Cadmium	< 0.00312	0.00312		mg/L	02/26/15 12:26	B5B0960	AG
Chromium	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Cobalt	< 0.0156	0.0156		mg/L	02/26/15 12:26	B5B0960	AG
Copper	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Iron	**7.67**	0.625		mg/L	02/26/15 12:26	B5B0960	AG
Lead	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Manganese	**0.244**	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Nickel	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Selenium	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Silver	**0.0221**	0.00312		mg/L	02/26/15 12:26	B5B0960	AG
Thallium	< 0.0312	0.0312		mg/L	02/26/15 12:26	B5B0960	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	03/02/15 15:27	B5C0025	IG
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**4.02**	2.00		mg/L	02/24/15 18:07	B5B0876	GSB

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-5
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:00
Matrix: Groundwater
Lab ID: 15B0481-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)							
Method: SW9056A (Continued)							
Fluoride	< 0.500	0.500		mg/L	02/24/15 18:07	B5B0876	GSB
Nitrogen, Nitrate	**1.40**	0.500		mg/L	02/24/15 18:07	B5B0876	GSB
Sulfate	**52.6**	5.00		mg/L	02/24/15 18:07	B5B0876	GSB
Wet Chemistry							
Method: E420.1 Rev.1978 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	02/25/15 14:52	B5B0940	ML3
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**384**	10.0		mg/L	02/27/15 08:05	B5B1030	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	03/02/15 15:24	B5C0029	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.326	0.326		ug/L	03/02/15 14:28	B5B0969	LP
Atrazine	< 0.326	0.326		ug/L	03/02/15 14:28	B5B0969	LP
Chlordane	< 0.326	0.326		ug/L	03/02/15 14:28	B5B0969	LP
Endrin	< 0.195	0.195		ug/L	03/02/15 14:28	B5B0969	LP
Lindane	< 0.195	0.195		ug/L	03/02/15 14:28	B5B0969	LP
Heptachlor	< 0.195	0.195		ug/L	03/02/15 14:28	B5B0969	LP
Heptachlor epoxide	< 0.195	0.195		ug/L	03/02/15 14:28	B5B0969	LP
Methoxychlor	< 0.195	0.195		ug/L	03/02/15 14:28	B5B0969	LP
Simazine	< 0.326	0.326		ug/L	03/02/15 14:28	B5B0969	LP
Toxaphene	< 0.977	0.977		ug/L	03/02/15 14:28	B5B0969	LP
Surrogate: Decachlorobiphenyl				*Recovery: 75%*	*Limits: 30-135*	*03/02/15 14:28*	*B5B0969*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 35%*	*Limits: 44-124*	*03/02/15 14:28*	*B5B0969*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.163	0.163		ug/L	03/02/15 13:29	B5B0970	NCH
Aroclor 1221	< 0.261	0.261		ug/L	03/02/15 13:29	B5B0970	NCH
Aroclor 1232	< 0.326	0.326		ug/L	03/02/15 13:29	B5B0970	NCH
Aroclor 1242	< 0.326	0.326		ug/L	03/02/15 13:29	B5B0970	NCH
Aroclor 1248	< 0.326	0.326		ug/L	03/02/15 13:29	B5B0970	NCH
Aroclor 1254	< 0.261	0.261		ug/L	03/02/15 13:29	B5B0970	NCH
Aroclor 1260	< 0.163	0.163		ug/L	03/02/15 13:29	B5B0970	NCH
Total PCB	< 0.326	0.326		ug/L	03/02/15 13:29	B5B0970	NCH
Surrogate: Decachlorobiphenyl				*Recovery: 77%*	*Limits: 40-135*	*03/02/15 13:29*	*B5B0970*	*NCH*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 41%*	*Limits: 13-133*	*03/02/15 13:29*	*B5B0970*	*NCH*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-5
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:00
Matrix: Groundwater
Lab ID: 15B0481-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/03/15 14:50	B5C0128	MNN
Carbofuran	< 2.00	2.00		ug/L		03/03/15 14:50	B5C0128	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		02/27/15 04:11	B5B0951	MNN
2,4-D	< 0.249	0.249		ug/L		02/27/15 04:11	B5B0951	MNN
Dinoseb	< 0.249	0.249		ug/L		02/28/15 03:36	B5B0951	MNN
Picloram	< 0.249	0.249		ug/L		02/27/15 04:11	B5B0951	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 36%*	*Limits: 20-138*	*02/27/15 04:11*	*B5B0951*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
1,2-Dichloropropane	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Benzene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Carbon tetrachloride	< 4.00	4.00		ug/L		02/24/15 19:46	B5B0917	JL
Chlorobenzene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 19:46	B5B0917	JL
Ethylbenzene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Methyl tert-butyl ether	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Dichloromethane	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Styrene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Tetrachloroethene	< 4.00	4.00		ug/L		02/24/15 19:46	B5B0917	JL
Toluene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		02/24/15 19:46	B5B0917	JL
Trichloroethene	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Vinyl chloride	< 2.00	2.00		ug/L		02/24/15 19:46	B5B0917	JL
Xylenes, Total	< 8.00	8.00		ug/L		02/24/15 19:46	B5B0917	JL
Surrogate: Dibromofluoromethane				*Recovery: 107%*	*Limits: 80-119*	*02/24/15 19:46*	*B5B0917*	*JL*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 115%*	*Limits: 81-118*	*02/24/15 19:46*	*B5B0917*	*JL*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*02/24/15 19:46*	*B5B0917*	*JL*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*02/24/15 19:46*	*B5B0917*	*JL*
Surrogate: 4-Bromofluorobenzene				*Recovery: 95%*	*Limits: 85-114*	*02/24/15 19:46*	*B5B0917*	*JL*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 110%*	*Limits: 70-120*	*02/24/15 19:46*	*B5B0917*	*JL*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Client Sample ID: AP-5
Report Date: 03/31/2015
Collection Date: 02/24/2015 08:00
Matrix: Groundwater
Lab ID: 15B0481-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/02/15 22:55	B5C0151	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/02/15 22:55	B5C0151	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/03/15 21:21	B5C0064	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 128%*	*Limits: 70-130*	*03/03/15 21:21*	*B5C0064*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		03/03/15 14:32	B5B1097	SJ1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 95%*	*Limits: 20-200*	*03/03/15 14:32*	*B5B1097*	*SJ1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.664	0.664		ug/L		02/28/15 07:11	B5B1026	JN1
o-Dichlorobenzene	< 0.664	0.664		ug/L		02/28/15 07:11	B5B1026	JN1
p-Dichlorobenzene	< 0.664	0.664		ug/L		02/28/15 07:11	B5B1026	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		02/28/15 07:11	B5B1026	JN1
Di(2-ethylhexyl)phthalate	**2.56**	1.33		ug/L		02/28/15 07:11	B5B1026	JN1
Hexachlorocyclopentadiene	< 3.32	3.32		ug/L		02/28/15 07:11	B5B1026	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		02/28/15 07:11	B5B1026	JN1
Surrogate: 2-Fluorophenol				*Recovery: 29%*	*Limits: 4-108*	*02/28/15 07:11*	*B5B1026*	*JN1*
Surrogate: Phenol-d5				*Recovery: 17%*	*Limits: 1-101*	*02/28/15 07:11*	*B5B1026*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 69%*	*Limits: 23-119*	*02/28/15 07:11*	*B5B1026*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 69%*	*Limits: 28-124*	*02/28/15 07:11*	*B5B1026*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 65%*	*Limits: 11-102*	*02/28/15 07:11*	*B5B1026*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 92%*	*Limits: 79-162*	*02/28/15 07:11*	*B5B1026*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.82**	1		pCi/L		03/18/15 00:00	UL
Radium-228	**0.49**	1		pCi/L		03/18/15 00:00	UL

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Dates Report

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15B0481-01	AW-3	02/24/15	Groundwater	Subcontracted Analyses		03/06/15 00:00	03/18/15 00:00	'[none]'	
				Sulfate (SO4), Anions by Ion Chromatography		02/25/15 09:36	02/25/15 20:46	B5B0911	S5B0450
				Nitrogen, Nitrate (NO3) as N, Anions by IC		02/25/15 09:36	02/25/15 20:46		
				Fluoride, Anions by Ion Chromatography		02/25/15 09:36	02/25/15 20:46		
				Chloride, Anions by Ion Chromatography		02/25/15 09:36	02/25/15 20:46		
				Volatile Organic Compounds by GC/MS		02/24/15 15:19	02/24/15 17:17	B5B0917	S5B0406
				Phenols, Total		02/25/15 10:00	02/25/15 14:52	B5B0940	S5B0417
				Herbicides by HPLC		02/26/15 09:30	02/28/15 00:05	B5B0951	S5C0024
				Herbicides by HPLC		02/26/15 09:30	02/27/15 00:40		S5B0437
				Iron, Total ICP-MS		02/25/15 15:10	02/26/15 12:17	B5B0960	S5B0436
				Selenium, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Antimony, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Barium, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Lead, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Nickel, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Manganese, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Thallium, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Copper, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Chromium, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Cobalt, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Beryllium, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Boron, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Arsenic, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Silver, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Cadmium, Total ICP-MS		02/25/15 15:10	02/26/15 12:17		
				Organochlorine Pesticides by GC/ECD		02/25/15 16:00	02/27/15 17:47	B5B0969	S5C0042
				Polychlorinated Biphenyls by GC/ECD		02/25/15 16:00	02/26/15 23:31	B5B0970	S5B0441
				Semivolatile Organic Compounds by GC/MS		02/26/15 14:00	02/28/15 03:44	B5B1026	S5B0465
				Solids, Total Dissolved (TDS)		02/27/15 08:05	02/27/15 08:05	B5B1030	
				Conductance, Field		02/24/15 11:20	02/24/15 11:20	B5B1060	
				pH, Tested On Site		02/24/15 11:20	02/24/15 11:20		
				Temperature in F, Field		02/24/15 11:20	02/24/15 11:20		
				Groundwater Parameters		02/24/15 11:20	02/24/15 11:20		
				EPA 548.1 Endothall		02/28/15 15:30	03/03/15 06:33	B5B1097	S5C0026
				Mercury, Total CCVA		03/02/15 09:00	03/02/15 15:18	B5C0025	S5C0025
				Cyanide, Total		03/02/15 11:30	03/02/15 15:24	B5C0029	S5C0020
				EPA 531.1 Carbamates		03/02/15 12:00	03/02/15 14:03	B5C0034	S5C0067
				EPA 552.1 Dalapon		03/02/15 18:00	03/03/15 13:40	B5C0064	S5C0046
				EPA 504.1 DBCP/EDB		03/02/15 10:00	03/02/15 20:19	B5C0151	S5C0075
15B0481-02	AP-1	02/24/15		Subcontracted Analyses		03/06/15 00:00	03/18/15 00:00	'[none]'	
				Fluoride, Anions by Ion Chromatography		02/25/15 09:36	02/25/15 13:50	B5B0911	S5B0450

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15B0481-02	AP-1	02/24/15	Groundwater	Chloride, Anions by Ion Chromatography		02/25/15 09:36	02/25/15 13:50	B5B0911	S5B0450
				Nitrogen, Nitrate (NO3) as N, Anions by IC		02/25/15 09:36	02/25/15 13:50		
				Volatile Organic Compounds by GC/MS		02/24/15 15:19	02/24/15 17:47	B5B0917	S5B0406
				Phenols, Total		02/25/15 10:00	02/25/15 14:52	B5B0940	S5B0417
				Herbicides by HPLC		02/26/15 09:30	02/28/15 00:47	B5B0951	S5C0024
				Herbicides by HPLC		02/26/15 09:30	02/27/15 01:22		S5B0437
				Cobalt, Total ICP-MS		02/25/15 15:10	02/26/15 12:19	B5B0960	S5B0436
				Iron, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Thallium, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Selenium, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Antimony, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Lead, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Nickel, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Manganese, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Copper, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Chromium, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Cadmium, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Beryllium, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Barium, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Boron, Total ICP-MS		02/25/15 15:10	02/26/15 13:44		
				Arsenic, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Silver, Total ICP-MS		02/25/15 15:10	02/26/15 12:19		
				Organochlorine Pesticides by GC/ECD		02/25/15 16:00	02/27/15 18:33	B5B0969	S5C0042
				Polychlorinated Biphenyls by GC/ECD		02/25/15 16:00	02/26/15 23:58	B5B0970	S5B0441
				Semivolatile Organic Compounds by GC/MS		02/26/15 14:00	02/28/15 04:26	B5B1026	S5B0465
				Solids, Total Dissolved (TDS)		02/27/15 08:05	02/27/15 08:05	B5B1030	
				pH, Tested On Site		02/24/15 10:10	02/24/15 10:10	B5B1060	
				Groundwater Parameters		02/24/15 10:10	02/24/15 10:10		
				Temperature in F, Field		02/24/15 10:10	02/24/15 10:10		
				Conductance, Field		02/24/15 10:10	02/24/15 10:10		
				EPA 548.1 Endothall		02/28/15 15:30	03/03/15 07:17	B5B1097	S5C0026
				Mercury, Total CCVA		03/02/15 09:00	03/02/15 15:20	B5C0025	S5C0025
				Cyanide, Total		03/02/15 11:30	03/02/15 15:24	B5C0029	S5C0020
				EPA 531.1 Carbamates		03/02/15 12:00	03/02/15 14:51	B5C0034	S5C0067
				EPA 552.1 Dalapon		03/02/15 18:00	03/03/15 15:35	B5C0064	S5C0046
				EPA 504.1 DBCP/EDB		03/02/15 10:00	03/02/15 20:50	B5C0151	S5C0075
				Sulfate (SO4), Anions by Ion Chromatography		03/08/15 09:56	03/08/15 17:38	B5C0269	S5C0159
15B0481-03	AP-2	02/24/15		Subcontracted Analyses		03/06/15 00:00	03/18/15 00:00	'[none]'	
				Chloride, Anions by Ion Chromatography		02/24/15 15:50	02/25/15 05:19	B5B0876	S5B0434
				Fluoride, Anions by Ion Chromatography		02/24/15 15:50	02/25/15 05:19		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		02/24/15 15:50	02/25/15 05:19		

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15B0481-03	AP-2	02/24/15	Groundwater	Sulfate (SO4), Anions by Ion Chromatography		02/25/15 09:36	02/26/15 00:14	B5B0911	S5B0450
				Volatile Organic Compounds by GC/MS		02/24/15 15:19	02/24/15 18:16	B5B0917	S5B0406
				Phenols, Total		02/25/15 10:00	02/25/15 14:52	B5B0940	S5B0417
				Herbicides by HPLC		02/26/15 09:30	02/28/15 01:29	B5B0951	S5C0024
				Herbicides by HPLC		02/26/15 09:30	02/27/15 02:05		S5B0437
				Nickel, Total ICP-MS		02/25/15 15:10	02/26/15 12:20	B5B0960	S5B0436
				Silver, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Thallium, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Selenium, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Antimony, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Lead, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Beryllium, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Arsenic, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Boron, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Barium, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Manganese, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Cadmium, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Cobalt, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Chromium, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Copper, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Iron, Total ICP-MS		02/25/15 15:10	02/26/15 12:20		
				Organochlorine Pesticides by GC/ECD		02/25/15 16:00	02/27/15 19:19	B5B0969	S5C0042
				Polychlorinated Biphenyls by GC/ECD		02/25/15 16:00	02/27/15 00:25	B5B0970	S5B0441
				Semivolatile Organic Compounds by GC/MS		02/26/15 14:00	02/28/15 05:07	B5B1026	S5B0465
				Solids, Total Dissolved (TDS)		02/27/15 08:05	02/27/15 08:05	B5B1030	
				pH, Tested On Site		02/24/15 09:15	02/24/15 09:15	B5B1060	
				Temperature in F, Field		02/24/15 09:15	02/24/15 09:15		
				Conductance, Field		02/24/15 09:15	02/24/15 09:15		
				Groundwater Parameters		02/24/15 09:15	02/24/15 09:15		
				EPA 548.1 Endothall		02/28/15 15:30	03/03/15 10:54	B5B1097	S5C0026
				Mercury, Total CCVA		03/02/15 09:00	03/02/15 15:21	B5C0025	S5C0025
				Cyanide, Total		03/02/15 11:30	03/02/15 15:24	B5C0029	S5C0020
				EPA 531.1 Carbamates		03/02/15 12:00	03/02/15 15:28	B5C0034	S5C0067
				EPA 552.1 Dalapon		03/02/15 18:00	03/03/15 19:26	B5C0064	S5C0046
				EPA 504.1 DBCP/EDB		03/02/15 10:00	03/02/15 21:22	B5C0151	S5C0075
15B0481-04	AP-3	02/24/15		Subcontracted Analyses		03/06/15 00:00	03/18/15 00:00	'[none]'	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		02/24/15 15:50	02/25/15 01:51	B5B0876	S5B0434
				Fluoride, Anions by Ion Chromatography		02/24/15 15:50	02/25/15 01:51		
				Chloride, Anions by Ion Chromatography		02/24/15 15:50	02/25/15 01:51		
				Sulfate (SO4), Anions by Ion Chromatography		02/25/15 09:36	02/26/15 02:18	B5B0911	S5B0450
				Volatile Organic Compounds by GC/MS		02/24/15 15:19	02/24/15 18:46	B5B0917	S5B0406

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15B0481-04	AP-3	02/24/15	Groundwater	Phenols, Total		02/25/15 10:00	02/25/15 14:52	B5B0940	S5B0417
				Herbicides by HPLC		02/26/15 09:30	02/28/15 02:11	B5B0951	S5C0024
				Herbicides by HPLC		02/26/15 09:30	02/27/15 02:47		S5B0437
				Nickel, Total ICP-MS		02/25/15 15:10	02/26/15 12:22	B5B0960	S5B0436
				Boron, Total ICP-MS		02/25/15 15:10	02/26/15 13:46		
				Arsenic, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Silver, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Cadmium, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Thallium, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Selenium, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Barium, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Lead, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Manganese, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Iron, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Beryllium, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Copper, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Chromium, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Cobalt, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Antimony, Total ICP-MS		02/25/15 15:10	02/26/15 12:22		
				Organochlorine Pesticides by GC/ECD		02/25/15 16:00	02/27/15 20:06	B5B0969	S5C0042
				Polychlorinated Biphenyls by GC/ECD		02/25/15 16:00	02/27/15 00:52	B5B0970	S5B0441
				Semivolatile Organic Compounds by GC/MS		02/26/15 14:00	02/28/15 05:49	B5B1026	S5B0465
				Solids, Total Dissolved (TDS)		02/27/15 08:05	02/27/15 08:05	B5B1030	
				Conductance, Field		02/24/15 08:45	02/24/15 08:45	B5B1060	
				pH, Tested On Site		02/24/15 08:45	02/24/15 08:45		
				Groundwater Parameters		02/24/15 08:45	02/24/15 08:45		
				Temperature in F, Field		02/24/15 08:45	02/24/15 08:45		
				EPA 548.1 Endothall		02/28/15 15:30	03/03/15 11:38	B5B1097	S5C0026
				Mercury, Total CCVA		03/02/15 09:00	03/02/15 15:23	B5C0025	S5C0025
				Cyanide, Total		03/02/15 11:30	03/02/15 15:24	B5C0029	S5C0020
				EPA 552.1 Dalapon		03/02/15 18:00	03/03/15 20:04	B5C0064	S5C0046
				EPA 531.1 Carbamates		03/03/15 10:41	03/03/15 13:07	B5C0128	S5C0064
				EPA 504.1 DBCP/EDB		03/02/15 10:00	03/02/15 21:53	B5C0151	S5C0075
15B0481-05	AP-4	02/24/15		Subcontracted Analyses		03/06/15 00:00	03/18/15 00:00	'[none]'	
				Sulfate (SO4), Anions by Ion Chromatography		02/24/15 15:50	02/24/15 20:18	B5B0876	S5B0434
				Nitrogen, Nitrate (NO3) as N, Anions by IC		02/24/15 15:50	02/24/15 20:18		
				Fluoride, Anions by Ion Chromatography		02/24/15 15:50	02/24/15 20:18		
				Chloride, Anions by Ion Chromatography		02/24/15 15:50	02/24/15 20:18		
				Volatile Organic Compounds by GC/MS		02/24/15 15:19	02/24/15 19:16	B5B0917	S5B0406
				Phenols, Total		02/25/15 10:00	02/25/15 14:52	B5B0940	S5B0417
				Herbicides by HPLC		02/26/15 09:30	02/27/15 03:29	B5B0951	S5B0437

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15B0481-05	AP-4	02/24/15	Groundwater	Herbicides by HPLC		02/26/15 09:30	02/28/15 02:53	B5B0951	S5C0024
				Selenium, Total ICP-MS		02/25/15 15:10	02/26/15 12:24	B5B0960	S5B0436
				Antimony, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Lead, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Nickel, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Manganese, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Iron, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Cobalt, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Thallium, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Cadmium, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Beryllium, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Barium, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Boron, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Arsenic, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Silver, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Copper, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Chromium, Total ICP-MS		02/25/15 15:10	02/26/15 12:24		
				Organochlorine Pesticides by GC/ECD		02/25/15 16:00	02/27/15 20:53	B5B0969	S5C0042
				Polychlorinated Biphenyls by GC/ECD		02/25/15 16:00	03/02/15 13:02	B5B0970	S5C0013
				Semivolatile Organic Compounds by GC/MS		02/26/15 14:00	02/28/15 06:30	B5B1026	S5B0465
				Solids, Total Dissolved (TDS)		02/27/15 08:05	02/27/15 08:05	B5B1030	
				Conductance, Field		02/24/15 08:15	02/24/15 08:15	B5B1060	
				Groundwater Parameters		02/24/15 08:15	02/24/15 08:15		
				pH, Tested On Site		02/24/15 08:15	02/24/15 08:15		
				Temperature in F, Field		02/24/15 08:15	02/24/15 08:15		
				EPA 548.1 Endothall		02/28/15 15:30	03/03/15 12:21	B5B1097	S5C0026
				Mercury, Total CCVA		03/02/15 09:00	03/02/15 15:25	B5C0025	S5C0025
				Cyanide, Total		03/02/15 11:30	03/02/15 15:39	B5C0029	S5C0020
				EPA 552.1 Dalapon		03/02/15 18:00	03/03/15 20:42	B5C0064	S5C0046
				EPA 531.1 Carbamates		03/03/15 10:41	03/03/15 13:49	B5C0128	S5C0064
				EPA 504.1 DBCP/EDB		03/02/15 10:00	03/02/15 22:24	B5C0151	S5C0075
15B0481-06	AP-5	02/24/15		Subcontracted Analyses		03/06/15 00:00	03/18/15 00:00	'[none]'	
				Chloride, Anions by Ion Chromatography		02/24/15 15:50	02/24/15 18:07	B5B0876	S5B0434
				Fluoride, Anions by Ion Chromatography		02/24/15 15:50	02/24/15 18:07		
				Sulfate (SO4), Anions by Ion Chromatography		02/24/15 15:50	02/24/15 18:07		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		02/24/15 15:50	02/24/15 18:07		
				Volatile Organic Compounds by GC/MS		02/24/15 15:19	02/24/15 19:46	B5B0917	S5B0406
				Phenols, Total		02/25/15 10:00	02/25/15 14:52	B5B0940	S5B0417
				Herbicides by HPLC		02/26/15 09:30	02/27/15 04:11	B5B0951	S5B0437
				Herbicides by HPLC		02/26/15 09:30	02/28/15 03:36		S5C0024
				Copper, Total ICP-MS		02/25/15 15:10	02/26/15 12:26	B5B0960	S5B0436

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15B0481-06	AP-5	02/24/15	Groundwater	Thallium, Total ICP-MS		02/25/15 15:10	02/26/15 12:26	B5B0960	S5B0436
				Selenium, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Antimony, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Lead, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Nickel, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Silver, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Iron, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Chromium, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Cobalt, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Cadmium, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Beryllium, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Barium, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Boron, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Arsenic, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Manganese, Total ICP-MS		02/25/15 15:10	02/26/15 12:26		
				Organochlorine Pesticides by GC/ECD		02/25/15 16:00	03/02/15 14:28	B5B0969	S5C0069
				Polychlorinated Biphenyls by GC/ECD		02/25/15 16:00	03/02/15 13:29	B5B0970	S5C0013
				Semivolatile Organic Compounds by GC/MS		02/26/15 18:00	02/28/15 07:11	B5B1026	S5B0465
				Solids, Total Dissolved (TDS)		02/27/15 08:05	02/27/15 08:05	B5B1030	
				pH, Tested On Site		02/24/15 08:00	02/24/15 08:00	B5B1060	
				Temperature in F, Field		02/24/15 08:00	02/24/15 08:00		
				Conductance, Field		02/24/15 08:00	02/24/15 08:00		
				Groundwater Parameters		02/24/15 08:00	02/24/15 08:00		
				EPA 548.1 Endothall		02/28/15 15:30	03/03/15 14:32	B5B1097	S5C0026
				Mercury, Total CCVA		03/02/15 09:00	03/02/15 15:27	B5C0025	S5C0025
				Cyanide, Total		03/02/15 11:30	03/02/15 15:24	B5C0029	S5C0020
				EPA 552.1 Dalapon		03/02/15 18:00	03/03/15 21:21	B5C0064	S5C0046
				EPA 531.1 Carbamates		03/03/15 10:41	03/03/15 14:50	B5C0128	S5C0064
				EPA 504.1 DBCP/EDB		03/02/15 10:00	03/02/15 22:55	B5C0151	S5C0075

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Quality Control

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0960 - SW3015										
Blank (B5B0960-BLK1)				*Prepared: 02/25/2015 15:10 Analyzed: 02/26/2015 12:00*						
Antimony	< 0.0312	0.0312	mg/L							
Arsenic	< 0.0312	0.0312	mg/L							
Barium	< 0.0312	0.0312	mg/L							
Beryllium	< 0.00312	0.00312	mg/L							
Boron	< 0.0156	0.0156	mg/L							
Cadmium	< 0.00312	0.00312	mg/L							
Chromium	< 0.0312	0.0312	mg/L							
Cobalt	< 0.0156	0.0156	mg/L							
Copper	< 0.0312	0.0312	mg/L							
Iron	< 0.625	0.625	mg/L							
Lead	< 0.0312	0.0312	mg/L							
Manganese	< 0.0312	0.0312	mg/L							
Nickel	< 0.0312	0.0312	mg/L							
Selenium	< 0.0312	0.0312	mg/L							
Silver	< 0.00312	0.00312	mg/L							
Thallium	< 0.0312	0.0312	mg/L							
LCS (B5B0960-BS1)				*Prepared: 02/25/2015 15:10 Analyzed: 02/26/2015 12:02*						
Antimony	1.18	0.0312	mg/L	1.25		94.7	85-117			
Arsenic	1.16	0.0312	mg/L	1.25		93.0	84-116			
Barium	1.32	0.0312	mg/L	1.25		106	86-114			
Beryllium	0.119	0.00312	mg/L	0.125		95.0	83-121			
Boron	0.620	0.0156	mg/L	0.625		99.2	73-130			
Cadmium	0.110	0.00312	mg/L	0.125		87.7	87-115			
Chromium	1.25	0.0312	mg/L	1.25		99.8	85-116			
Cobalt	1.25	0.0156	mg/L	1.25		100	86-115			
Copper	1.26	0.0312	mg/L	1.25		101	85-118			
Iron	2.50	0.625	mg/L	2.50		99.9	87-118			
Lead	1.24	0.0312	mg/L	1.25		99.5	88-115			
Manganese	1.25	0.0312	mg/L	1.25		99.9	87-115			
Nickel	1.28	0.0312	mg/L	1.25		102	85-117			
Selenium	1.10	0.0312	mg/L	1.25		88.0	80-120			
Silver	1.24	0.00312	mg/L	1.25		99.0	85-116			
Thallium	1.29	0.0312	mg/L	1.25		103	82-116			
Serial Dilution (B5B0960-DUP1)		**Source: 15B0496-03**		*Prepared: 02/25/2015 15:10 Analyzed: 02/26/2015 12:38*						
Antimony	< 0.00682	0.156	mg/L		ND				20	
Arsenic	0.00215	0.156	mg/L		ND				20	
Barium	0.132	0.156	mg/L		ND				20	
Beryllium	< 0.00180	0.0156	mg/L		ND				20	
Boron	0.222	0.0781	mg/L		0.183			19.1	20	
Cadmium	< 0.00222	0.0156	mg/L		ND				20	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0960 - SW3015 *(Continued)*										
Serial Dilution (B5B0960-DUP1) (Continued)		**Source: 15B0496-03**		*Prepared: 02/25/2015 15:10*		*Analyzed: 02/26/2015 12:38*				
Chromium	< 0.00412	0.156	mg/L		ND				20	
Cobalt	< 0.00525	0.0781	mg/L		ND				20	
Copper	< 0.0180	0.156	mg/L		ND				20	
Iron	0.821	3.12	mg/L		0.784			4.70	20	
Lead	< 0.00140	0.156	mg/L		ND				20	
Manganese	0.326	0.156	mg/L		ND				20	
Nickel	< 0.00780	0.156	mg/L		ND				20	
Selenium	< 0.00212	0.156	mg/L		ND				20	
Silver	< 0.00230	0.0156	mg/L		ND				20	
Thallium	< 0.00198	0.156	mg/L		ND				20	
MRL Check (B5B0960-MRL1)				*Prepared: 02/25/2015 15:10*		*Analyzed: 02/26/2015 12:09*				
Antimony	0.0270	0.0312	mg/L	0.0312		86.5	70-130			
Arsenic	0.0325	0.0312	mg/L	0.0312		104	70-130			
Barium	0.0326	0.0312	mg/L	0.0312		104	70-130			
Beryllium	0.00322	0.00312	mg/L	0.00312		103	70-130			
Boron	0.0247	0.0156	mg/L	0.0156		158	70-130			S
Cadmium	0.00300	0.00312	mg/L	0.00312		96.0	70-130			
Chromium	0.0304	0.0312	mg/L	0.0312		97.3	70-130			
Cobalt	0.0255	0.0156	mg/L	0.0250		102	70-130			
Copper	0.0356	0.0312	mg/L	0.0312		114	70-130			
Iron	0.0816	0.625	mg/L	0.0625		130	70-130			S
Lead	0.0301	0.0312	mg/L	0.0312		96.2	70-130			
Manganese	0.0307	0.0312	mg/L	0.0312		98.3	70-130			
Nickel	0.0347	0.0312	mg/L	0.0312		111	70-130			
Selenium	0.0314	0.0312	mg/L	0.0312		101	70-130			
Silver	0.0307	0.00312	mg/L	0.0312		98.4	70-130			
Thallium	0.0356	0.0312	mg/L	0.0312		114	70-130			
Matrix Spike (B5B0960-MS1)		**Source: 15B0496-03**		*Prepared: 02/25/2015 15:10*		*Analyzed: 02/26/2015 12:33*				
Antimony	1.22	0.0312	mg/L	1.25	ND	97.4	75-125			
Arsenic	1.16	0.0312	mg/L	1.25	ND	92.6	75-125			
Barium	1.46	0.0312	mg/L	1.25	ND	117	75-125			
Beryllium	0.113	0.00312	mg/L	0.125	ND	90.6	75-125			
Boron	0.775	0.0156	mg/L	0.625	0.183	94.7	75-125			
Cadmium	0.112	0.00312	mg/L	0.125	ND	89.5	75-125			
Chromium	1.21	0.0312	mg/L	1.25	ND	96.4	75-125			
Cobalt	1.20	0.0156	mg/L	1.25	ND	95.8	75-125			
Copper	1.17	0.0312	mg/L	1.25	ND	93.6	75-125			
Iron	3.19	0.625	mg/L	2.50	0.784	96.2	75-125			
Lead	1.19	0.0312	mg/L	1.25	ND	95.4	75-125			
Manganese	1.57	0.0312	mg/L	1.25	ND	126	75-125			S

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0960 - SW3015 *(Continued)*										
Matrix Spike (B5B0960-MS1) (Continued)		**Source: 15B0496-03**		*Prepared: 02/25/2015 15:10*		*Analyzed: 02/26/2015 12:33*				
Nickel	1.22	0.0312	mg/L	1.25	ND	97.4	75-125			
Selenium	1.09	0.0312	mg/L	1.25	ND	87.5	75-125			
Silver	0.143	0.00312	mg/L	1.25	ND	11.4	75-125			S
Thallium	1.22	0.0312	mg/L	1.25	ND	97.3	75-125			
Matrix Spike Dup (B5B0960-MSD1)		**Source: 15B0496-03**		*Prepared: 02/25/2015 15:10*		*Analyzed: 02/26/2015 12:35*				
Antimony	1.20	0.0312	mg/L	1.25	ND	95.7	75-125	1.77	20	
Arsenic	1.14	0.0312	mg/L	1.25	ND	90.9	75-125	1.90	20	
Barium	1.43	0.0312	mg/L	1.25	ND	114	75-125	1.96	20	
Beryllium	0.110	0.00312	mg/L	0.125	ND	88.3	75-125	2.56	20	
Boron	0.732	0.0156	mg/L	0.625	0.183	87.8	75-125	5.72	20	
Cadmium	0.107	0.00312	mg/L	0.125	ND	85.6	75-125	4.51	20	
Chromium	1.17	0.0312	mg/L	1.25	ND	93.8	75-125	2.73	20	
Cobalt	1.16	0.0156	mg/L	1.25	ND	93.1	75-125	2.88	20	
Copper	1.13	0.0312	mg/L	1.25	ND	90.3	75-125	3.53	20	
Iron	3.08	0.625	mg/L	2.50	0.784	91.8	75-125	3.56	20	
Lead	1.15	0.0312	mg/L	1.25	ND	92.0	75-125	3.58	20	
Manganese	1.54	0.0312	mg/L	1.25	ND	123	75-125	2.35	20	S
Nickel	1.18	0.0312	mg/L	1.25	ND	94.3	75-125	3.28	20	
Selenium	1.07	0.0312	mg/L	1.25	ND	85.9	75-125	1.82	20	
Silver	0.109	0.00312	mg/L	1.25	ND	8.70	75-125	27.0	20	S
Thallium	1.20	0.0312	mg/L	1.25	ND	96.0	75-125	1.33	20	
Post Spike (B5B0960-PS1)		**Source: 15B0496-03**		*Prepared: 02/25/2015 15:10*		*Analyzed: 02/26/2015 12:37*				
Antimony	0.230	0.0250	mg/L	0.250	ND	92.1	75-125			
Arsenic	0.235	0.0250	mg/L	0.250	ND	93.9	75-125			
Barium	0.328	0.0250	mg/L	0.250	ND	131	75-125			
Beryllium	0.114	0.00250	mg/L	0.125	ND	90.9	75-125			
Boron	0.387	0.0125	mg/L	0.250	0.183	81.8	75-125			
Cadmium	0.204	0.00250	mg/L	0.250	ND	81.7	75-125			
Chromium	0.246	0.0250	mg/L	0.250	ND	98.2	75-125			
Cobalt	0.238	0.0125	mg/L	0.250	ND	95.4	75-125			
Copper	0.234	0.0250	mg/L	0.250	ND	93.4	75-125			
Iron	1.84	0.500	mg/L	1.25	0.784	84.8	75-125			
Lead	0.235	0.0250	mg/L	0.250	ND	94.1	75-125			
Manganese	0.538	0.0250	mg/L	0.250	ND	215	75-125			
Nickel	0.225	0.0250	mg/L	0.250	ND	90.1	75-125			
Selenium	0.221	0.0250	mg/L	0.250	ND	88.4	75-125			
Silver	0.223	0.00250	mg/L	0.250	ND	89.2	75-125			
Thallium	0.240	0.0250	mg/L	0.250	ND	96.2	75-125			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5C0025										
Blank (B5C0025-BLK1)				*Prepared: 03/02/2015 09:00*			*Analyzed: 03/02/2015 13:42*			
Mercury	< 0.00025	0.00025	mg/L							
LCS (B5C0025-BS1)				*Prepared: 03/02/2015 09:00*			*Analyzed: 03/02/2015 13:44*			
Mercury	0.00448	0.00025	mg/L	0.00500		89.6	82-119			
MRL Check (B5C0025-MRL1)				*Prepared: 03/02/2015 09:00*			*Analyzed: 03/02/2015 15:03*			
Mercury	0.00025	0.00025	mg/L	0.000250		98.8	70-130			
Matrix Spike (B5C0025-MS1)		**Source: 15B0007-02**		*Prepared: 03/02/2015 09:00*			*Analyzed: 03/02/2015 13:55*			
Mercury	0.00157	0.00025	mg/L	0.00200	ND	78.4	75-125			
Matrix Spike Dup (B5C0025-MSD1)		**Source: 15B0007-02**		*Prepared: 03/02/2015 09:00*			*Analyzed: 03/02/2015 13:57*			
Mercury	0.00174	0.00025	mg/L	0.00200	ND	86.8	75-125	10.2	20	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0876										
Blank (B5B0876-BLK1)				*Prepared: 02/24/2015 10:11*		*Analyzed: 02/24/2015 12:27*				
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B5B0876-BS1)				*Prepared: 02/24/2015 10:11*		*Analyzed: 02/24/2015 15:15*				
Chloride	0.222	0.200	mg/L	0.200		111	87-111			
Fluoride	0.184	0.0500	mg/L	0.200		92.0	88-112			
Nitrogen, Nitrate	0.0990	0.0500	mg/L	0.0904		110	88-111			
Sulfate	0.305	0.500	mg/L	0.400		76.2	87-112			S
LCS (B5B0876-BS2)				*Prepared: 02/24/2015 10:11*		*Analyzed: 02/24/2015 13:51*				
Chloride	5.16	0.200	mg/L	5.00		103	87-111			
Fluoride	4.97	0.0500	mg/L	5.00		99.4	88-112			
Nitrogen, Nitrate	1.96	0.0500	mg/L	2.26		86.9	88-111			S
Sulfate	9.49	0.500	mg/L	10.0		94.9	87-112			
Matrix Spike (B5B0876-MS1)		**Source: 15B0480-03**		*Prepared: 02/24/2015 10:11*		*Analyzed: 02/27/2015 09:35*				
Chloride	36.2	2.00	mg/L	25.0	10.4	103	80-120			
Fluoride	26.5	0.500	mg/L	25.0	0.120	106	80-120			
Nitrogen, Nitrate	30.1	0.500	mg/L	25.0	0.560	118	80-120			S
Sulfate	61.8	5.00	mg/L	25.0	41.0	83.5	80-120			
Matrix Spike (B5B0876-MS2)		**Source: 15B0480-11**		*Prepared: 02/24/2015 10:11*		*Analyzed: 02/27/2015 09:35*				
Chloride	49.8	2.00	mg/L	25.0	19.9	119	80-120			
Fluoride	29.3	0.500	mg/L	25.0	0.190	116	80-120			
Nitrogen, Nitrate	35.5	0.500	mg/L	25.0	0.900	138	80-120			S
Sulfate	57.8	5.00	mg/L	25.0	29.2	114	80-120			
Matrix Spike Dup (B5B0876-MSD1)		**Source: 15B0480-03**		*Prepared: 02/24/2015 10:11*		*Analyzed: 02/27/2015 09:35*				
Chloride	36.0	2.00	mg/L	25.0	10.4	102	80-120	0.526	20	
Fluoride	26.5	0.500	mg/L	25.0	0.120	106	80-120	0.0754	20	
Nitrogen, Nitrate	30.1	0.500	mg/L	25.0	0.560	118	80-120	0.0665	20	
Sulfate	61.7	5.00	mg/L	25.0	41.0	82.9	80-120	0.259	20	
Matrix Spike Dup (B5B0876-MSD2)		**Source: 15B0480-11**		*Prepared: 02/24/2015 10:11*		*Analyzed: 02/27/2015 09:35*				
Chloride	49.8	2.00	mg/L	25.0	19.9	119	80-120	0.0603	20	
Fluoride	29.4	0.500	mg/L	25.0	0.190	117	80-120	0.239	20	
Nitrogen, Nitrate	35.6	0.500	mg/L	25.0	0.900	139	80-120	0.253	20	S
Sulfate	57.9	5.00	mg/L	25.0	29.2	115	80-120	0.121	20	
Batch: B5B0911										

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Anions by Ion Chromatography
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0911 *(Continued)*										
Blank (B5B0911-BLK1)				*Prepared: 02/25/2015 09:36*			*Analyzed: 02/25/2015 10:11*			
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B5B0911-BS1)				*Prepared: 02/25/2015 09:36*			*Analyzed: 02/25/2015 10:53*			
Chloride	0.227	0.200	mg/L	0.200		114	87-111			S
Fluoride	0.188	0.0500	mg/L	0.200		94.0	88-112			
Nitrogen, Nitrate	0.118	0.0500	mg/L	0.0904		131	88-111			S
Sulfate	0.289	0.500	mg/L	0.400		72.2	87-112			S
LCS (B5B0911-BS2)				*Prepared: 02/25/2015 09:36*			*Analyzed: 02/25/2015 11:35*			
Chloride	5.35	0.200	mg/L	5.00		107	87-111			
Fluoride	5.15	0.0500	mg/L	5.00		103	88-112			
Nitrogen, Nitrate	2.31	0.0500	mg/L	2.26		102	88-111			
Sulfate	8.62	0.500	mg/L	10.0		86.2	87-112			S
Matrix Spike (B5B0911-MS1)		**Source: 15B0480-05**		*Prepared: 02/25/2015 09:36*			*Analyzed: 02/26/2015 21:08*			
Chloride	32.2	2.00	mg/L	25.0	0.630	126	80-120			S
Fluoride	27.7	0.500	mg/L	25.0	0.0900	111	80-120			
Nitrogen, Nitrate	33.0	0.500	mg/L	25.0	ND	132	80-120			S
Sulfate	24.8	5.00	mg/L	25.0	0.380	97.7	80-120			
Matrix Spike Dup (B5B0911-MSD1)		**Source: 15B0480-05**		*Prepared: 02/25/2015 09:36*			*Analyzed: 02/26/2015 21:50*			
Chloride	33.4	2.00	mg/L	25.0	0.630	131	80-120	3.53	20	S
Fluoride	29.9	0.500	mg/L	25.0	0.0900	119	80-120	7.53	20	
Nitrogen, Nitrate	35.3	0.500	mg/L	25.0	ND	141	80-120	6.91	20	S
Sulfate	26.3	5.00	mg/L	25.0	0.380	104	80-120	5.79	20	
Batch: B5C0269										
Blank (B5C0269-BLK1)				*Prepared: 03/08/2015 09:56*			*Analyzed: 03/08/2015 14:52*			
Sulfate	< 0.500	0.500	mg/L							
LCS (B5C0269-BS2)				*Prepared: 03/08/2015 09:56*			*Analyzed: 03/08/2015 16:15*			
Sulfate	9.26	0.500	mg/L	10.0		92.6	87-112			
Matrix Spike (B5C0269-MS1)		**Source: 15C0065-06RE1**		*Prepared: 03/08/2015 09:56*			*Analyzed: 03/09/2015 01:16*			
Sulfate	979	100	mg/L	5000	560	8.39	80-120			S

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Anions by Ion Chromatography
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5C0269 *(Continued)*										
Matrix Spike Dup (B5C0269-MSD1)			**Source: 15C0065-06RE1**	*Prepared: 03/08/2015 09:56*			*Analyzed: 03/09/2015 01:58*			
Sulfate	982	100	mg/L	5000	560	8.44	80-120	0.286	20	S

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0940										
Blank (B5B0940-BLK1)				*Prepared: 02/25/2015 10:00*		*Analyzed: 02/25/2015 14:52*				
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B5B0940-BS1)				*Prepared: 02/25/2015 10:00*		*Analyzed: 02/25/2015 14:52*				
Phenolics, Total Recoverable	0.0412	0.0100	mg/L	0.0500		82.5	85-115			S
Matrix Spike (B5B0940-MS1)		**Source: 15B0481-06**		*Prepared: 02/25/2015 10:00*		*Analyzed: 02/25/2015 14:52*				
Phenolics, Total Recoverable	0.0415	0.0100	mg/L	0.0500	ND	83.0	80-120			
Matrix Spike Dup (B5B0940-MSD1)		**Source: 15B0481-06**		*Prepared: 02/25/2015 10:00*		*Analyzed: 02/25/2015 14:52*				
Phenolics, Total Recoverable	0.0448	0.0100	mg/L	0.0500	ND	89.6	80-120	7.63	10	
Batch: B5B1030										
Blank (B5B1030-BLK1)				*Prepared: 02/27/2015 08:05*		*Analyzed: 02/27/2015 08:05*				
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B5B1030-BS1)				*Prepared: 02/27/2015 08:05*		*Analyzed: 02/27/2015 08:05*				
Total Dissolved Solids (Residue, Filterable)	950	10.0	mg/L	953		99.7	85-115			
Duplicate (B5B1030-DUP1)		**Source: 15B0392-09**		*Prepared: 02/27/2015 08:05*		*Analyzed: 02/27/2015 08:05*				
Total Dissolved Solids (Residue, Filterable)	330	10.0	mg/L		340			2.99	5	
Batch: B5C0029 - SW9010B										
Blank (B5C0029-BLK1)				*Prepared: 03/02/2015 11:30*		*Analyzed: 03/02/2015 14:54*				
Cyanide	< 0.010	0.010	mg/L							
LCS (B5C0029-BS1)				*Prepared: 03/02/2015 11:30*		*Analyzed: 03/02/2015 14:54*				
Cyanide	0.051	0.010	mg/L	0.0500		102	83-116			
LCS (B5C0029-BS2)				*Prepared: 03/02/2015 11:30*		*Analyzed: 03/02/2015 14:54*				
Cyanide	0.012	0.010	mg/L	0.0100		121	83-116			S
Matrix Spike (B5C0029-MS1)		**Source: 15B0481-06**		*Prepared: 03/02/2015 11:30*		*Analyzed: 03/02/2015 15:39*				
Cyanide	0.184	0.010	mg/L	0.200	ND	92.2	80-120			
Matrix Spike Dup (B5C0029-MSD1)		**Source: 15B0481-06**		*Prepared: 03/02/2015 11:30*		*Analyzed: 03/02/2015 15:39*				
Cyanide	0.182	0.010	mg/L	0.200	ND	90.9	80-120	1.41	10	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0969 - SW3510										
Blank (B5B0969-BLK1)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/26/2015 15:26*			
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.0697*		*ug/L*	*0.100*		*70*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0637*		*ug/L*	*0.100*		*64*	*44-124*			
LCS (B5B0969-BS1)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/26/2015 16:12*			
Alachlor	< 0.0865	0.500	ug/L				19-132			
Atrazine	< 0.120	0.500	ug/L				57-119			
Chlordane	< 0.0495	0.500	ug/L				0-200			
Endrin	0.0838	0.300	ug/L	0.100		84	60-138			
Lindane (gamma-BHC)	0.0752	0.300	ug/L	0.100		75	59-134			
Heptachlor	0.0893	0.300	ug/L	0.100		89	54-130			
Heptachlor epoxide	0.0839	0.300	ug/L	0.100		84	61-133			
Methoxychlor	0.0873	0.300	ug/L	0.100		87	54-145			
Simazine	< 0.144	0.500	ug/L				35-124			
Toxaphene	< 0.316	1.50	ug/L				50-150			
Surrogate: Decachlorobiphenyl	*0.0731*		*ug/L*	*0.100*		*73*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0708*		*ug/L*	*0.100*		*71*	*44-124*			
LCS (B5B0969-BS2)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/26/2015 16:59*			
Alachlor	0.452	0.500	ug/L	0.500		90	19-132			
Atrazine	0.370	0.500	ug/L	0.500		74	57-119			
Chlordane	< 0.0495	0.500	ug/L				0-200			
Simazine	0.441	0.500	ug/L	0.500		88	35-124			
Toxaphene	< 0.316	1.50	ug/L				50-150			
LCS Dup (B5B0969-BSD1)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/27/2015 16:13*			
Alachlor	< 0.0865	0.500	ug/L				19-132		20	
Atrazine	< 0.120	0.500	ug/L				57-119		20	
Chlordane	< 0.0495	0.500	ug/L				0-200		200	
Endrin	0.106	0.300	ug/L	0.100		106	60-138	23	20	P
Lindane (gamma-BHC)	0.0802	0.300	ug/L	0.100		80	59-134	7	20	
Heptachlor	0.0934	0.300	ug/L	0.100		93	54-130	4	20	
Heptachlor epoxide	0.0981	0.300	ug/L	0.100		98	61-133	16	20	

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0969 - SW3510 *(Continued)*										
LCS Dup (B5B0969-BSD1) (Continued)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/27/2015 16:13*			
Methoxychlor	0.105	0.300	ug/L	0.100		105	54-145	18	20	
Simazine	< 0.144	0.500	ug/L				35-124		20	
Toxaphene	< 0.316	1.50	ug/L				50-150		20	
Surrogate: Decachlorobiphenyl	*0.119*		*ug/L*	*0.100*		*119*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0865*		*ug/L*	*0.100*		*87*	*44-124*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0970 - SW3510										
Blank (B5B0970-BLK1)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/26/2015 21:17*			
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Aroclor 1262	< 1.00	1.00	ug/L							
Aroclor 1268	< 0.500	0.500	ug/L							
Surrogate: Decachlorobiphenyl	*0.0878*		*ug/L*	*0.100*		*88*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0876*		*ug/L*	*0.100*		*88*	*13-133*			
LCS (B5B0970-BS1)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/26/2015 21:44*			
Aroclor 1016	0.635	0.500	ug/L	0.800		79	46-129			
Aroclor 1260	0.754	0.500	ug/L	0.800		94	45-134			
Surrogate: Decachlorobiphenyl	*0.0794*		*ug/L*	*0.100*		*79*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0757*		*ug/L*	*0.100*		*76*	*13-133*			
LCS Dup (B5B0970-BSD1)				*Prepared: 02/25/2015 16:00*			*Analyzed: 02/26/2015 22:10*			
Aroclor 1016	0.465	0.500	ug/L	0.800		58	46-129	31	20	P
Aroclor 1260	0.549	0.500	ug/L	0.800		69	45-134	31	20	P
Surrogate: Decachlorobiphenyl	*0.0702*		*ug/L*	*0.100*		*70*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0675*		*ug/L*	*0.100*		*68*	*13-133*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5C0034										
Blank (B5C0034-BLK1)				*Prepared: 03/02/2015 12:00*			*Analyzed: 03/02/2015 12:14*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 10.0	10.0	ug/L							
LCS (B5C0034-BS1)				*Prepared: 03/02/2015 12:00*			*Analyzed: 03/02/2015 16:04*			
Aldicarb	53.8	2.00	ug/L	50.0		108	85-115			
Carbofuran	54.8	2.00	ug/L	50.0		110	85-115			
LCS Dup (B5C0034-BSD1)				*Prepared: 03/02/2015 12:00*			*Analyzed: 03/02/2015 16:41*			
Aldicarb	54.8	2.00	ug/L	50.0		110	85-115	2	20	
Carbofuran	55.8	2.00	ug/L	50.0		112	85-115	2	20	
Batch: B5C0128										
Blank (B5C0128-BLK1)				*Prepared: 03/03/2015 10:41*			*Analyzed: 03/03/2015 10:43*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B5C0128-BS1)				*Prepared: 03/03/2015 10:41*			*Analyzed: 03/03/2015 11:19*			
Aldicarb	54.8	2.00	ug/L	50.0		110	85-115			
Carbofuran	55.4	2.00	ug/L	50.0		111	85-115			
LCS Dup (B5C0128-BSD1)				*Prepared: 03/03/2015 10:41*			*Analyzed: 03/03/2015 11:55*			
Aldicarb	54.4	2.00	ug/L	50.0		109	85-115	0.7	20	
Carbofuran	54.7	2.00	ug/L	50.0		109	85-115	1	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0951 - SW3510										
Blank (B5B0951-BLK1)				*Prepared: 02/25/2015 12:30 Analyzed: 02/26/2015 19:45*						
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*29.2*		*ug/L*	*50.0*		*58*	*20-138*			
Blank (B5B0951-BLK2)				*Prepared: 02/25/2015 12:30 Analyzed: 02/27/2015 12:51*						
Dinoseb	< 1.50	1.50	ug/L							
LCS (B5B0951-BS1)				*Prepared: 02/25/2015 12:30 Analyzed: 02/26/2015 20:28*						
2,4,5-TP (Silvex)	10.1	1.50	ug/L	10.0		101	50-115			
2,4-D	8.57	1.50	ug/L	10.0		86	35-115			
Picloram	3.62	1.50	ug/L	10.0		36	50-150			S
Surrogate: 3,5-Dichlorobenzoic Acid	*25.5*		*ug/L*	*50.0*		*51*	*20-138*			
LCS (B5B0951-BS2)				*Prepared: 02/25/2015 12:30 Analyzed: 02/27/2015 13:33*						
Dinoseb	9.59	1.50	ug/L	10.0		96	20-100			
Surrogate: 3,5-Dichlorobenzoic Acid	*37.4*		*ug/L*	*50.0*		*75*	*20-138*			
LCS Dup (B5B0951-BSD1)				*Prepared: 02/25/2015 12:30 Analyzed: 02/26/2015 21:10*						
2,4,5-TP (Silvex)	10.1	1.50	ug/L	10.0		101	50-115	0.3	20	
2,4-D	8.65	1.50	ug/L	10.0		86	35-115	1	20	
Picloram	3.90	1.50	ug/L	10.0		39	50-150	8	20	S
Surrogate: 3,5-Dichlorobenzoic Acid	*28.7*		*ug/L*	*50.0*		*57*	*20-138*			
LCS Dup (B5B0951-BSD2)				*Prepared: 02/25/2015 12:30 Analyzed: 02/27/2015 14:15*						
Dinoseb	9.39	1.50	ug/L	10.0		94	20-100	2	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*38.8*		*ug/L*	*50.0*		*78*	*20-138*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0917 - SW5030										
Blank (B5B0917-BLK1)				*Prepared: 02/24/2015 09:19 Analyzed: 02/24/2015 13:47*						
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*21.6*		*ug/L*	*20.0*		*108*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*24.0*		*ug/L*	*20.0*		*120*	*81-118*			*S*
Surrogate: Fluorobenzene	*20.1*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*18.9*		*ug/L*	*20.0*		*95*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.79*		*ug/L*	*10.0*		*98*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*22.5*		*ug/L*	*20.0*		*112*	*70-120*			
LCS (B5B0917-BS1)				*Prepared: 02/24/2015 09:19 Analyzed: 02/24/2015 10:42*						
1,1,1-Trichloroethane	89.5	2.00	ug/L	80.0		112	74-131			
1,1,2-Trichloroethane	83.2	2.00	ug/L	80.0		104	80-119			
1,1-Dichloroethene	92.2	2.00	ug/L	80.0		115	71-131			
1,2-Dichloroethane	87.8	2.00	ug/L	80.0		110	73-128			
1,2-Dichloropropane	90.8	2.00	ug/L	80.0		114	78-122			
Benzene	91.2	2.00	ug/L	80.0		114	79-120			
Carbon tetrachloride	88.3	4.00	ug/L	80.0		110	72-136			
Chlorobenzene	86.9	2.00	ug/L	80.0		109	82-118			
cis-1,2-Dichloroethene	93.5	10.0	ug/L	80.0		117	78-123			
Ethylbenzene	94.2	2.00	ug/L	80.0		118	79-121			
Methyl tert-butyl ether	90.7	2.00	ug/L	80.0		113	71-124			
Dichloromethane (Methylene chloride)	91.4	2.00	ug/L	80.0		114	74-124			
Styrene	93.8	2.00	ug/L	80.0		117	78-123			
Tetrachloroethene	77.0	4.00	ug/L	80.0		96	74-129			
Toluene	90.0	2.00	ug/L	80.0		113	80-121			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Volatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B0917 - SW5030 *(Continued)*										
LCS (B5B0917-BS1) (Continued)				*Prepared: 02/24/2015 09:19*			*Analyzed: 02/24/2015 10:42*			
trans-1,2-Dichloroethene	93.2	10.0	ug/L	80.0		117	75-124			
Trichloroethene	89.1	2.00	ug/L	80.0		111	79-123			
Vinyl chloride	88.2	2.00	ug/L	80.0		110	58-137			
Xylenes, Total	276	8.00	ug/L	240		115	79-121			
Surrogate: Dibromofluoromethane	*20.1*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.4*		*ug/L*	*20.0*		*102*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.3*		*ug/L*	*20.0*		*102*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.53*		*ug/L*	*10.0*		*95*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.7*		*ug/L*	*20.0*		*98*	*70-120*			
LCS Dup (B5B0917-BSD1)				*Prepared: 02/24/2015 09:19*			*Analyzed: 02/24/2015 11:12*			
1,1,1-Trichloroethane	89.4	2.00	ug/L	80.0		112	74-131	0.1	20	
1,1,2-Trichloroethane	85.6	2.00	ug/L	80.0		107	80-119	3	20	
1,1-Dichloroethene	90.7	2.00	ug/L	80.0		113	71-131	2	20	
1,2-Dichloroethane	87.5	2.00	ug/L	80.0		109	73-128	0.4	20	
1,2-Dichloropropane	91.8	2.00	ug/L	80.0		115	78-122	1	20	
Benzene	92.3	2.00	ug/L	80.0		115	79-120	1	20	
Carbon tetrachloride	90.7	4.00	ug/L	80.0		113	72-136	3	20	
Chlorobenzene	88.0	2.00	ug/L	80.0		110	82-118	1	20	
cis-1,2-Dichloroethene	92.5	10.0	ug/L	80.0		116	78-123	1	20	
Ethylbenzene	95.7	2.00	ug/L	80.0		120	79-121	2	20	
Methyl tert-butyl ether	91.0	2.00	ug/L	80.0		114	71-124	0.3	20	
Dichloromethane (Methylene chloride)	89.6	2.00	ug/L	80.0		112	74-124	2	20	
Styrene	95.1	2.00	ug/L	80.0		119	78-123	1	20	
Tetrachloroethene	78.1	4.00	ug/L	80.0		98	74-129	1	20	
Toluene	90.2	2.00	ug/L	80.0		113	80-121	0.2	20	
trans-1,2-Dichloroethene	93.1	10.0	ug/L	80.0		116	75-124	0.1	20	
Trichloroethene	91.4	2.00	ug/L	80.0		114	79-123	3	20	
Vinyl chloride	88.8	2.00	ug/L	80.0		111	58-137	0.7	20	
Xylenes, Total	281	8.00	ug/L	240		117	79-121	2	20	
Surrogate: Dibromofluoromethane	*19.7*		*ug/L*	*20.0*		*98*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.4*		*ug/L*	*20.0*		*102*	*81-118*			
Surrogate: Fluorobenzene	*20.4*		*ug/L*	*20.0*		*102*	*80-116*			
Surrogate: Toluene-d8	*20.4*		*ug/L*	*20.0*		*102*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.60*		*ug/L*	*10.0*		*96*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.2*		*ug/L*	*20.0*		*101*	*70-120*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5C0151										
Blank (B5C0151-BLK1)				*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 17:12*			
1,2-Dibromo-3-chloropropane	< 0.100	0.100	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B5C0151-BS1)				*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 16:09*			
1,2-Dibromo-3-chloropropane	0.239	0.100	ug/L	0.250		96	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.235	0.100	ug/L	0.250		94	70-130			
LCS (B5C0151-BS2)				*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 15:38*			
1,2-Dibromo-3-chloropropane	0.242	0.100	ug/L	0.250		97	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.242	0.100	ug/L	0.250		97	70-130			
LCS (B5C0151-BS3)				*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 18:45*			
1,2-Dibromo-3-chloropropane	0.252	0.100	ug/L	0.250		101	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.251	0.100	ug/L	0.250		100	70-130			
LCS (B5C0151-BS4)				*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 23:26*			
1,2-Dibromo-3-chloropropane	0.272	0.100	ug/L	0.250		109	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.265	0.100	ug/L	0.250		106	70-130			
LCS Dup (B5C0151-BSD1)				*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 16:40*			
1,2-Dibromo-3-chloropropane	0.247	0.100	ug/L	0.250		99	70-130	3	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.241	0.100	ug/L	0.250		97	70-130	3	20	
Duplicate (B5C0151-DUP1)		**Source: 15B0007-02**		*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 19:48*			
1,2-Dibromo-3-chloropropane	< 0.0243	0.0972	ug/L		ND				200	
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0321	0.0972	ug/L		ND				200	
Matrix Spike (B5C0151-MS1)		**Source: 15B0007-01**		*Prepared: 03/02/2015 10:00*			*Analyzed: 03/02/2015 18:14*			
1,2-Dibromo-3-chloropropane	0.257	0.100	ug/L	0.250	ND	103	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.252	0.100	ug/L	0.250	ND	101	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5C0064										
Blank (B5C0064-BLK1)				*Prepared: 03/02/2015 18:00*			*Analyzed: 03/03/2015 11:44*			
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*10.5*		*ug/L*	*10.0*		*105*	*70-130*			
LCS (B5C0064-BS1)				*Prepared: 03/02/2015 18:00*			*Analyzed: 03/03/2015 11:06*			
Dalapon	11.3	0.500	ug/L	10.0		113	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*8.89*		*ug/L*	*10.0*		*89*	*70-130*			
Duplicate (B5C0064-DUP1)		**Source: 15B0007-02**		*Prepared: 03/02/2015 18:00*			*Analyzed: 03/03/2015 18:47*			
Dalapon	< 0.122	0.500	ug/L		ND				200	
Surrogate: 2,4-Dichlorophenylacetic acid	*12.4*		*ug/L*	*10.0*		*124*	*70-130*			
Matrix Spike (B5C0064-MS1)		**Source: 15B0481-01**		*Prepared: 03/02/2015 18:00*			*Analyzed: 03/03/2015 14:18*			
Dalapon	9.46	0.500	ug/L	10.0	ND	95	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*8.97*		*ug/L*	*10.0*		*90*	*70-130*			
Matrix Spike Dup (B5C0064-MSD1)		**Source: 15B0481-01**		*Prepared: 03/02/2015 18:00*			*Analyzed: 03/03/2015 14:57*			
Dalapon	9.49	0.500	ug/L	10.0	ND	95	70-130	0.3	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*8.96*		*ug/L*	*10.0*		*90*	*70-130*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B1026 - SW3510										
Blank (B5B1026-BLK1)				*Prepared: 02/26/2015 14:00*			*Analyzed: 02/28/2015 06:16*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*20.1*		*ug/L*	*33.4*		*60*	*4-108*			
Surrogate: Phenol-d5	*12.3*		*ug/L*	*33.4*		*37*	*1-101*			
Surrogate: Nitrobenzene-d5	*29.1*		*ug/L*	*33.4*		*87*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*34.0*		*ug/L*	*33.4*		*102*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*18.1*		*ug/L*	*33.4*		*54*	*11-102*			
Surrogate: 4-Terphenyl-d14	*50.5*		*ug/L*	*33.4*		*152*	*79-162*			
LCS (B5B1026-BS1)				*Prepared: 02/26/2015 14:00*			*Analyzed: 02/28/2015 06:59*			
1,2,4-Trichlorobenzene	38.5	5.00	ug/L	50.0		77	36-97			
o-Dichlorobenzene (1,2-Dichlorobenzene)	38.9	5.00	ug/L	50.0		78	25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	39.6	5.00	ug/L	50.0		79	24-101			
Benzo(a)pyrene	60.6	10.0	ug/L	50.0		121	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	67.5	10.0	ug/L	50.0		135	46-122			S
Hexachlorocyclopentadiene	32.9	25.0	ug/L	50.0		66	19-112			
Pentachlorophenol	46.6	100	ug/L	50.0		93	37-120			
Surrogate: 2-Fluorophenol	*20.8*		*ug/L*	*33.4*		*62*	*4-108*			
Surrogate: Phenol-d5	*13.8*		*ug/L*	*33.4*		*41*	*1-101*			
Surrogate: Nitrobenzene-d5	*35.2*		*ug/L*	*33.4*		*105*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*34.8*		*ug/L*	*33.4*		*104*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*39.1*		*ug/L*	*33.4*		*117*	*11-102*			S
Surrogate: 4-Terphenyl-d14	*49.5*		*ug/L*	*33.4*		*148*	*79-162*			
LCS Dup (B5B1026-BSD1)				*Prepared: 02/26/2015 14:00*			*Analyzed: 02/28/2015 07:43*			
1,2,4-Trichlorobenzene	41.4	5.00	ug/L	50.0		83	36-97	7	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	40.4	5.00	ug/L	50.0		81	25-101	4	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	38.3	5.00	ug/L	50.0		77	24-101	3	20	
Benzo(a)pyrene	62.3	10.0	ug/L	50.0		125	49-124	3	20	S
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	68.4	10.0	ug/L	50.0		137	46-122	1	20	S
Hexachlorocyclopentadiene	34.9	25.0	ug/L	50.0		70	19-112	6	20	
Pentachlorophenol	48.6	100	ug/L	50.0		97	37-120	4	20	
Surrogate: 2-Fluorophenol	*21.6*		*ug/L*	*33.4*		*65*	*4-108*			
Surrogate: Phenol-d5	*14.2*		*ug/L*	*33.4*		*43*	*1-101*			
Surrogate: Nitrobenzene-d5	*38.4*		*ug/L*	*33.4*		*115*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*38.6*		*ug/L*	*33.4*		*116*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*41.6*		*ug/L*	*33.4*		*125*	*11-102*			S

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B1026 - SW3510 *(Continued)*										
LCS Dup (B5B1026-BSD1) (Continued)				*Prepared: 02/26/2015 14:00*			*Analyzed: 02/28/2015 07:43*			
Surrogate: 4-Terphenyl-d14	*51.2*		*ug/L*	*33.4*		*154*	*79-162*			
Matrix Spike (B5B1026-MS1)		**Source: 15B0046-01**		*Prepared: 02/27/2015 12:00*			*Analyzed: 02/28/2015 09:53*			
1,2,4-Trichlorobenzene	55.1	6.00	ug/L	60.0	ND	92	19-90			S
o-Dichlorobenzene (1,2-Dichlorobenzene)	52.2	6.00	ug/L	60.0	ND	87	17-86			S
p-Dichlorobenzene (1,4-Dichlorobenzene)	56.4	6.00	ug/L	60.0	ND	94	16-84			S
Benzo(a)pyrene	85.9	12.0	ug/L	60.0	ND	143	55-102			S
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	109	12.0	ug/L	60.0	13.6	159	56-97			S
Hexachlorocyclopentadiene	41.9	30.0	ug/L	60.0	ND	70	10-107			
Pentachlorophenol	83.5	120	ug/L	60.0	ND	139	10-107			S
Surrogate: 2-Fluorophenol	*29.0*		*ug/L*	*40.0*		*73*	*4-108*			
Surrogate: Phenol-d5	*20.0*		*ug/L*	*40.0*		*50*	*1-101*			
Surrogate: Nitrobenzene-d5	*45.9*		*ug/L*	*40.0*		*115*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*49.6*		*ug/L*	*40.0*		*124*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*77.1*		*ug/L*	*40.0*		*193*	*11-102*			*S*
Surrogate: 4-Terphenyl-d14	*71.9*		*ug/L*	*40.0*		*180*	*79-162*			*S*
Matrix Spike Dup (B5B1026-MSD1)		**Source: 15B0046-01**		*Prepared: 02/27/2015 12:00*			*Analyzed: 02/28/2015 10:36*			
1,2,4-Trichlorobenzene	54.0	5.92	ug/L	59.2	ND	91	19-90	2	46	S
o-Dichlorobenzene (1,2-Dichlorobenzene)	48.4	5.92	ug/L	59.2	ND	82	17-86	8	52	
p-Dichlorobenzene (1,4-Dichlorobenzene)	51.4	5.92	ug/L	59.2	ND	87	16-84	9	55	S
Benzo(a)pyrene	84.9	11.8	ug/L	59.2	ND	144	55-102	1	31	S
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	112	11.8	ug/L	59.2	13.6	166	56-97	2	19	S
Hexachlorocyclopentadiene	46.2	29.6	ug/L	59.2	ND	78	10-107	10	42	
Pentachlorophenol	90.4	118	ug/L	59.2	ND	153	10-107	8	46	S
Surrogate: 2-Fluorophenol	*24.9*		*ug/L*	*39.5*		*63*	*4-108*			
Surrogate: Phenol-d5	*18.2*		*ug/L*	*39.5*		*46*	*1-101*			
Surrogate: Nitrobenzene-d5	*45.4*		*ug/L*	*39.5*		*115*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*46.9*		*ug/L*	*39.5*		*119*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*70.3*		*ug/L*	*39.5*		*178*	*11-102*			*S*
Surrogate: 4-Terphenyl-d14	*67.4*		*ug/L*	*39.5*		*171*	*79-162*			*S*
Batch: B5B1097										
Blank (B5B1097-BLK1)				*Prepared: 02/28/2015 15:30*			*Analyzed: 03/03/2015 05:06*			
Endothall	< 15.5	15.5	ug/L							
Surrogate: 2,4,6-Tribromophenol	*254*		*ug/L*	*334*		*76*	*20-200*			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
First Quarter 2015
Work Order: 15B0481

Report Date: 03/31/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5B1097 *(Continued)*										
LCS (B5B1097-BS1)				*Prepared: 02/28/2015 15:30*			*Analyzed: 03/03/2015 05:50*			
Endothall	613	15.5	ug/L	500		123	50-150			
Surrogate: 2,4,6-Tribromophenol	*237*		*ug/L*	*334*		*71*	*20-200*			
Duplicate (B5B1097-DUP1)		**Source: 15B0481-03**		*Prepared: 02/28/2015 15:30*			*Analyzed: 03/03/2015 08:00*			
Endothall	< 5.15	15.5	ug/L		ND				200	
Surrogate: 2,4,6-Tribromophenol	*203*		*ug/L*	*334*		*61*	*20-200*			
Matrix Spike (B5B1097-MS1)		**Source: 15B0481-06**		*Prepared: 02/28/2015 15:30*			*Analyzed: 03/03/2015 15:15*			
Endothall	492	15.5	ug/L	500	ND	98	50-150			
Surrogate: 2,4,6-Tribromophenol	*365*		*ug/L*	*334*		*109*	*20-200*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
E420.1 Rev.1978 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	ISO,AKDEC,WDNR,DoD,ILEPA
Barium	7440-39-3	ISO,AKDEC,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	ISO,AKDEC,WDNR,DoD,ILEPA
Chromium	7440-47-3	ISO,AKDEC,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,WDNR,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	ISO,AKDEC,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Nickel	7440-02-0	ISO,AKDEC,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	ISO,WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR
SW8082A in Water		

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water (Continued)		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
Total PCB	1336-36-3	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Benzene	71-43-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,ILEPA,DoD
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,ILEPA,DoD
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,ILEPA,DoD
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Styrene	100-42-5	LELAP,WDNR,ILEPA,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Toluene	108-88-3	AKDEC,LELAP,WDNR,ILEPA,DoD
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,ILEPA,DoD
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,ILEPA,DoD
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321A in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem in Water		

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9014 by Aquachem in Water (Continued)		
Cyanide	57-12-5	DoD,ILEPA,WDNR
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2015
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003041	07/27/2015
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2015
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2015

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Qualifiers and Definitions

Item	Description
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 15B0481

Client Name	City, Water, Light & Power
Client Contact	Sue Corcoran
Address	201 East Lake Shore Drive
City	Springfield
State/Zip	IL, 62707-
Phone	(217) 757-8610
Fax	(217) 757-8615
Sampler	F. Ovrantia
Sampler Signature	
Project Name	List G20
Project Number	[none]
Project Description	
PO Number	
Shipped By	
Tracking Number	

Requested Analyses: SW8260B; E531.1; SM7500 SW6020A SW7470A; SW8081B SW8082A SW8270D SW8321A SW9056A; SM2540C SM2550-B SM4500-H E504.1 E548.1 E552.1 SM2510B; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 3/2/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AW-3	2-24-15	1120	G	W	21	3	1	3	12	1	1	1ABCDE FGHIJK LMNOPQRSTU

Relinquished By	Date/Time 2-24-15 1220	Received By	Date/Time 02-24-15 / 12:30	Sample Kit Prepared By	Date/Time
Relinquished By	Date/Time 02-24-15 / 16:00	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 2/24/15 16:00		
Cooler Numbers and Temperatures	3.6				

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preserva

PH 7=7.00 @1100 on 2-24--15

Response to 1st RTP
CWLP - 02632

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 15B0481

Client Name: City, Water, Light & Power		Project Name: List G20	
Client Contact: Sue Corcoran		Project Number: [none]	
Address: 201 East Lake Shore Drive		Project Description:	
City: Springfield		PO Number:	
State/Zip: IL, 62707-		Shipped By:	
Phone: (217) 757-8610	Fax: (217) 757-8615	Tracking Number:	
Sampler: P. Bachmer	Sampler Signature: Pat Bachmer		

Requested Analyses: SW8260B; E531.1; SM7500 SW6020A SW7470A; SW8321A SW9056A; SW8081B SW8082A SW8270D; SM2540C SM2550-B SM4500-H; E504.1 E548.1 E552.1 SM2510B; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.
Standard (days): 5
Expedited (days):
Due Date: 3/2/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code: 5	B	3	9	4	2					Sample Comments
AP-1	2-24-15	1010	G	W	21	3	1	3	12	1	1					2ABCDEF GHIJKL MNOPQR STU

Relinquished By: Pat Bachmer	Date/Time: 2-24-15 1425	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By: Melissa Hepa	Date/Time: 2/24/15 1425		
Cooler Numbers and Temperatures: 3.6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,B=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preserva

pH 7 = 7.0 @ 0730

Response to 1st RTP
CWLP - 02633

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Page 1 of 1

COC Number

Lab Work Order Number 15B0481

Client Name: City, Water, Light & Power		Project Name: List G20	
Client Contact: Sue Corcoran		Project Number: [none]	
Address: 201 East Lake Shore Drive		Project Description	
City: Springfield		PO Number	
State/Zip: IL, 62707-		Shipped By	
Phone: (217) 757-8610	Fax: (217) 757-8615	Tracking Number	
Sampler: P. Bachmer	Sampler Signature: Pat Bachmer		

Requested Analyses: SW8260B; E531.1; SM7500 SW6020A SW7470A; SW8321A SW9056A; SW8081B SW8082A SW8270D; SM2540C SM2550-B SM4500-H; E504.1 E548.1 E552.1 SM2510B; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 3/2/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AP4	2-24-15	0815	G	W	21	3	1	3	12	1	1	5 ABCDEFGHIJKLMNOPQRSTU
AP 3	2-24-15	0845	G	W	21	3	1	3	12	1	1	4 ABCDEFGHIJKLMNOPQRSTU
AP 2	2-24-15	0915	G	W	21	3	1	3	12	1	1	3 ABCDEFGHIJKLMNOPQRSTU

Relinquished By: Pat Bachmer	Date/Time: 2-24-15 1425	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By: Debra Harper	Date/Time: 2/24/15 1425		
Cooler Numbers and Temperatures: 3.6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preserva

PH 7 = 7.0 @ 0730

03H received empty

Response to 1st RTP
CWLP - 02634

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 15B0481

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Samplers: F Orravoica	Sampler Signature:

Requested Analyses: SW8260B; E531.1; SM7500 SW6020A SW7470A; SW8081B SW8082A SW8270D SW8321A SW9056A; SM2540C SM2550-B SM4500-H E504.1 E548.1 E552.1 SM2510B; SW9014 by Aquachem; E420.1 Rev.1978 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.
Standard (days): 5
Expedited (days):
Due Date: 3/2/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code	Sample Comments
~~AP-5~~ AP-5	2-24-15	0820	G	W	21	5: 3, 8: 1, 3: 3, 9: 12, 4: 1, 2: 1	ABCDEFGHIJKLMNOPQRSTU

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	2-24-15 1110	Pat Bak	2-24-15 1110		
Relinquished By: Pat Bak	Date/Time 2-24-15 1425	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By: Melissa Meyer	Date/Time 2/24/15 1425		
Cooler Numbers and Temperatures: 3.6					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preserva

PH=7.00@0740 on 2-24-15

Response to 1st RTP
CWLP - 02635

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 335019
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3195271	15B0481-01	7500-Ra B	02/24/15 11:20	Client	02/26/15 10:00
3195271	15B0481-01	7500-Ra D	02/24/15 11:20	Client	02/26/15 10:00
3195272	15B0481-02	7500-Ra B	02/24/15 10:10	Client	02/26/15 10:00
3195272	15B0481-02	7500-Ra D	02/24/15 10:10	Client	02/26/15 10:00
3195273	15B0481-03	7500-Ra B	02/24/15 09:15	Client	02/26/15 10:00
3195273	15B0481-03	7500-Ra D	02/24/15 09:15	Client	02/26/15 10:00
3195274	15B0481-04	7500-Ra B	02/24/15 08:45	Client	02/26/15 10:00
3195274	15B0481-04	7500-Ra D	02/24/15 08:45	Client	02/26/15 10:00
3195275	15B0481-05	7500-Ra B	02/24/15 08:15	Client	02/26/15 10:00
3195275	15B0481-05	7500-Ra D	02/24/15 08:15	Client	02/26/15 10:00
3195276	15B0481-06	7500-Ra B	02/24/15 08:00	Client	02/26/15 10:00
3195276	15B0481-06	7500-Ra D	02/24/15 08:00	Client	02/26/15 10:00

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jim Van Fleit ASM

Authorized Signature | Title

03/24/2015
Date

Client Name: Environmental Monitoring Technologies
Report #: 335019

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Client Name: Environmental Monitoring Technologies Report #: 335019

Sampling Point: 15B0481-01 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.38	1.0	**0.80 ± 0.47**	pCi/L	03/03/15 14:44	03/06/15 10:48	3195271
15262-20-1	Radium-228	7500-Ra D	---	0.29	1.0	**0.87 ± 0.33**	pCi/L	03/06/15 12:00	03/18/15 13:46	3195271
---	Combined Radium	calc.	5 *	0.38	---	**1.67 ± 0.57**	pCi/L	03/03/15 14:44	03/18/15 13:46	3195271

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15B0481-02 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.3	1.0	**2.4 ± 0.7**	pCi/L	03/03/15 14:44	03/06/15 10:48	3195272
15262-20-1	Radium-228	7500-Ra D	---	0.25	1.0	**0.82 ± 0.28**	pCi/L	03/06/15 12:00	03/18/15 13:46	3195272
---	Combined Radium	calc.	5 *	0.3	---	**3.22 ± 0.74**	pCi/L	03/03/15 14:44	03/18/15 13:46	3195272

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15B0481-03 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.6	1.0	**1.4 ± 0.8**	pCi/L	03/03/15 14:44	03/06/15 10:48	3195273
15262-20-1	Radium-228	7500-Ra D	---	0.23	1.0	**0.70 ± 0.26**	pCi/L	03/06/15 12:00	03/18/15 13:46	3195273
---	Combined Radium	calc.	5 *	0.6	---	**2.10 ± 0.79**	pCi/L	03/03/15 14:44	03/18/15 13:46	3195273

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15B0481-04 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.4	1.0	**1.4 ± 0.6**	pCi/L	03/03/15 14:44	03/06/15 10:48	3195274
15262-20-1	Radium-228	7500-Ra D	---	0.29	1.0	**0.65 ± 0.32**	pCi/L	03/06/15 12:00	03/18/15 13:46	3195274
---	Combined Radium	calc.	5 *	0.4	---	**2.05 ± 0.65**	pCi/L	03/03/15 14:44	03/18/15 13:46	3195274

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

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Client Name: Environmental Monitoring Technologies Report #: 335019

Sampling Point: 15B0481-05 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.42	1.0	**0.86 ± 0.52**	pCi/L	03/03/15 14:44	03/06/15 10:48	3195275
15262-20-1	Radium-228	7500-Ra D	---	0.27	1.0	**0.67 ± 0.30**	pCi/L	03/06/15 12:00	03/18/15 13:46	3195275
---	Combined Radium	calc.	5 *	0.42	---	**1.53 ± 0.60**	pCi/L	03/03/15 14:44	03/18/15 13:46	3195275

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15B0481-06 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.39	1.0	**0.82 ± 0.49**	pCi/L	03/03/15 14:44	03/06/15 10:48	3195276
15262-20-1	Radium-228	7500-Ra D	---	0.40	1.0	**0.49 ± 0.41**	pCi/L	03/06/15 12:00	03/21/15 18:09	3195276
---	Combined Radium	calc.	5 *	0.40	---	**1.31 ± 0.64**	pCi/L	03/03/15 14:44	03/21/15 18:09	3195276

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type	MCL	SMCL	AL
Symbol	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contr butes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the cal bration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the cal bration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

15B0481

272758

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins (Underwriters Laboratory), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

335019

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 15B0481-01 Water	**Sampled:02/24/15 11:20**			
Radiation Testing, Subcontracted	03/03/15 10:00	03/26/15 11:20 (2)	3195271	PO #; 60099 for Radium 226 and 228 analysis, Standard TAT. pH<2 SS
Containers Supplied:				
Sample ID: 15B0481-02 Water	**Sampled:02/24/15 10:10**			
Radiation Testing, Subcontracted	03/03/15 10:00	03/26/15 10:10 (2)	3195272	PO #; 60099 for Radium 226 and 228 analysis, Standard TAT.
Containers Supplied:				
Sample ID: 15B0481-03 Water	**Sampled:02/24/15 09:15**			
Radiation Testing, Subcontracted	03/03/15 10:00	03/26/15 09:15 (2)	3195273	PO #; 60099 for Radium 226 and 228 analysis, Standard TAT.
Containers Supplied:				
Sample ID: 15B0481-04 Water	**Sampled:02/24/15 08:45**			
Radiation Testing, Subcontracted	03/03/15 10:00	03/26/15 08:45 (2)	3195274	PO #; 60099 for Radium 226 and 228 analysis, Standard TAT.
Containers Supplied:				
Sample ID: 15B0481-05 Water	**Sampled:02/24/15 08:15**			
Radiation Testing, Subcontracted	03/03/15 10:00	03/26/15 08:15 (2)	3195275	PO #; 60099 for Radium 226 and 228 analysis, Standard TAT.
Containers Supplied:				Client Provided Sample Container

2/25/15 - Radium 226 and 228 in source water, all under PO # 60099
- 2 1L containers each. If too much sediment, please settle and decant as needed before analysis.

Released By	Date	Received By	Date
			2-26-15 1000
Released By	Date	Received By	Date

Electronic Filing: Received, Clerk's Office 01/29/2020

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

15B0481

Analysis	Due	Expires	Comments
Sample ID: 15B0481-06 Water	**Sampled:02/24/15 08:00**		
Radiation Testing, Subcontracted	03/03/15 10:00	03/26/15 08:00 (2)	PO #; 60099 for Radium 226 and 228 analysis, Standard TAT.
Containers Supplied:	3195276	pH<2 s	

Client Provided Sample Container

Mailed COC was not Signed at "Relinquished by" by Client

Iced

Released By	Date	Received By	Date
			2-26-15 1000
Released By	Date	Received By	Date

Table of Contents

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

June 30, 2015

Work Order: 15E0478

RE: List G20
2Q15

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 6/30/2015 4:19:59PM

Approved by,

Gerald L Bagnowski Jr.

Gerald L. Bagnowski Jr.
Laboratory Director

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	15E0478-01	Groundwater	05/28/15 08:10	05/28/15 14:30
AP-1	15E0478-02	Groundwater	05/28/15 08:55	05/28/15 14:30
AP-2	15E0478-03	Groundwater	05/28/15 11:30	05/28/15 14:30
AP-3	15E0478-04	Groundwater	05/28/15 10:15	05/28/15 14:30
AP-4	15E0478-05	Groundwater	05/28/15 09:40	05/28/15 14:30
AP-5	15E0478-06	Groundwater	05/28/15 08:10	05/28/15 14:30
AW-3	15E0478-01	Groundwater	05/28/15 08:10	05/28/15 14:30
AP-1	15E0478-02	Groundwater	05/28/15 08:55	05/28/15 14:30
AP-2	15E0478-03	Groundwater	05/28/15 11:30	05/28/15 14:30
AP-3	15E0478-04	Groundwater	05/28/15 10:15	05/28/15 14:30
AP-4	15E0478-05	Groundwater	05/28/15 09:40	05/28/15 14:30
AP-5	15E0478-06	Groundwater	05/28/15 08:10	05/28/15 14:30
AW-3	15E0478-01	Groundwater	05/28/15 08:10	05/28/15 14:30
AP-1	15E0478-02	Groundwater	05/28/15 08:55	05/28/15 14:30
AP-2	15E0478-03	Groundwater	05/28/15 11:30	05/28/15 14:30
AP-3	15E0478-04	Groundwater	05/28/15 10:15	05/28/15 14:30
AP-4	15E0478-05	Groundwater	05/28/15 09:40	05/28/15 14:30
AP-5	15E0478-06	Groundwater	05/28/15 08:10	05/28/15 14:30

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Case Narrative

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Date: 06/30/2015

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Work Order: 15E0478

The samples were received on 5/28/2015 2:30:00 PM . The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 4 degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided.
Due to sediment being present, 15E0478-02, 03, and 06 were decanted prior to the analysis of radium 226 and 228.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AW-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**496.01**			No unit	05/28/15 08:10	B5F0736	CD
Depth to water (feet below land surface)	**8.84**			No unit	05/28/15 08:10	B5F0736	CD
Depth to water (feet from measuring point)	**11.42**			No unit	05/28/15 08:10	B5F0736	CD
Elevation of groundwater surface (Feet)	**528.91**			No unit	05/28/15 08:10	B5F0736	CD
Method: SM2510B							
Specific Conductance	**829**	0.00		uS/cm	05/28/15 08:10	B5F0736	CD
Method: SM2550-B							
Temperature	**53.8**			°F	05/28/15 08:10	B5F0736	CD
Method: SM4500-H							
pH	**7.19**	0.05		pH Units	05/28/15 08:10	B5F0736	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Arsenic	**0.114**	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Barium	**0.185**	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Beryllium	< 0.00250	0.00250		mg/L	06/03/15 15:14	B5F0032	AG
Boron	**0.210**	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Cadmium	< 0.00250	0.00250		mg/L	06/03/15 15:14	B5F0032	AG
Calcium	**85.1**	1.25		mg/L	06/04/15 13:20	B5F0032	AG
Chromium	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Cobalt	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Copper	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Iron	**9.53**	0.125		mg/L	06/03/15 15:14	B5F0032	AG
Lead	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Manganese	**0.263**	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Nickel	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Selenium	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Silver	< 0.00250	0.00250		mg/L	06/03/15 15:14	B5F0032	AG
Thallium	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Zinc	< 0.0250	0.0250		mg/L	06/03/15 15:14	B5F0032	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	06/01/15 12:20	B5F0019	MB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AW-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography								
Method: SW9056A								
Chloride	**27.1**	2.00		mg/L		05/28/15 23:38	B5E1197	DZ1
Fluoride	**0.540**	0.500		mg/L		05/28/15 23:38	B5E1197	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L		05/28/15 23:38	B5E1197	DZ1
Sulfate	**5.31**	5.00		mg/L		05/28/15 23:38	B5E1197	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**458**	10.0		mg/L		06/02/15 10:00	B5F0091	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/29/15 11:04	B5E1205	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		06/01/15 15:34	B5F0026	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.164	0.164		ug/L		06/17/15 18:12	B5E1255	LP
Atrazine	< 0.164	0.164		ug/L		06/17/15 18:12	B5E1255	LP
Chlordane	< 0.164	0.164		ug/L		06/17/15 18:12	B5E1255	LP
Endrin	< 0.0985	0.0985		ug/L		06/17/15 18:12	B5E1255	LP
Lindane	< 0.0985	0.0985		ug/L		06/17/15 18:12	B5E1255	LP
Heptachlor	< 0.0985	0.0985		ug/L		06/17/15 18:12	B5E1255	LP
Heptachlor epoxide	< 0.0985	0.0985		ug/L		06/17/15 18:12	B5E1255	LP
Methoxychlor	< 0.0985	0.0985		ug/L		06/17/15 18:12	B5E1255	LP
Simazine	< 0.164	0.164		ug/L		06/17/15 18:12	B5E1255	LP
Toxaphene	< 0.493	0.493		ug/L		06/17/15 18:12	B5E1255	LP
Surrogate: Decachlorobiphenyl				*Recovery: 68%*	*Limits: 30-135*	*06/17/15 18:12*	*B5E1255*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 38%*	*Limits: 44-124*	*06/17/15 18:12*	*B5E1255*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.328	0.328		ug/L		06/18/15 15:24	B5E1211	LP
Aroclor 1221	< 0.525	0.525		ug/L		06/18/15 15:24	B5E1211	LP
Aroclor 1232	< 0.657	0.657		ug/L		06/18/15 15:24	B5E1211	LP
Aroclor 1242	< 0.657	0.657		ug/L		06/18/15 15:24	B5E1211	LP
Aroclor 1248	< 0.657	0.657		ug/L		06/18/15 15:24	B5E1211	LP
Aroclor 1254	< 0.525	0.525		ug/L		06/18/15 15:24	B5E1211	LP
Aroclor 1260	< 0.328	0.328		ug/L		06/18/15 15:24	B5E1211	LP
Total PCB	< 0.657	0.657		ug/L		06/18/15 15:24	B5E1211	LP
Surrogate: Decachlorobiphenyl				*Recovery: 73%*	*Limits: 40-135*	*06/18/15 15:24*	*B5E1211*	*LP*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AW-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 45%*	*Limits: 13-133*	*06/18/15 15:24*	*B5E1211*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/15 14:06	B5F0543	SG1
Carbofuran	< 2.00	2.00		ug/L		06/04/15 14:06	B5F0543	SG1
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		06/09/15 21:09	B5F0054	JL
2,4-D	< 0.249	0.249		ug/L		06/09/15 21:09	B5F0054	JL
Dinoseb	< 0.249	0.249		ug/L		06/09/15 21:09	B5F0054	JL
Picloram	< 0.249	0.249		ug/L		06/09/15 21:09	B5F0054	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 55%*	*Limits: 20-138*	*06/09/15 21:09*	*B5F0054*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Benzene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/29/15 15:50	B5F0228	KK1
Chlorobenzene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/29/15 15:50	B5F0228	KK1
Ethylbenzene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Dichloromethane	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Styrene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/29/15 15:50	B5F0228	KK1
Toluene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/29/15 15:50	B5F0228	KK1
Trichloroethene	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Vinyl chloride	< 2.00	2.00		ug/L		05/29/15 15:50	B5F0228	KK1
Xylenes, Total	< 8.00	8.00		ug/L		05/29/15 15:50	B5F0228	KK1
Surrogate: Dibromofluoromethane				*Recovery: 110%*	*Limits: 80-119*	*05/29/15 15:50*	*B5F0228*	*KK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 114%*	*Limits: 81-118*	*05/29/15 15:50*	*B5F0228*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/29/15 15:50*	*B5F0228*	*KK1*
Surrogate: Toluene-d8				*Recovery: 94%*	*Limits: 89-112*	*05/29/15 15:50*	*B5F0228*	*KK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 85-114*	*05/29/15 15:50*	*B5F0228*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 109%*	*Limits: 70-120*	*05/29/15 15:50*	*B5F0228*	*KK1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AW-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		06/03/15 20:45	B5F0213	SJ1
Ethylene Dibromide	< 0.100	0.100		ug/L		06/03/15 20:45	B5F0213	SJ1
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/07/15 00:23	B5F0301	mnn
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 108%*	*Limits: 70-130*	*06/07/15 00:23*	*B5F0301*	*mnn*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		06/09/15 13:43	B5F0120	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 96%*	*Limits: 20-200*	*06/09/15 13:43*	*B5F0120*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.661	0.661		ug/L		06/07/15 03:06	B5F0168	JN1
o-Dichlorobenzene	< 0.661	0.661		ug/L		06/07/15 03:06	B5F0168	JN1
p-Dichlorobenzene	< 0.661	0.661		ug/L		06/07/15 03:06	B5F0168	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		06/07/15 03:06	B5F0168	JN1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		06/07/15 03:06	B5F0168	JN1
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		06/07/15 03:06	B5F0168	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		06/07/15 03:06	B5F0168	JN1
Surrogate: 2-Fluorophenol				*Recovery: 22%*	*Limits: 4-108*	*06/07/15 03:06*	*B5F0168*	*JN1*
Surrogate: Phenol-d5				*Recovery: 16%*	*Limits: 1-101*	*06/07/15 03:06*	*B5F0168*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 54%*	*Limits: 23-119*	*06/07/15 03:06*	*B5F0168*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 50%*	*Limits: 28-124*	*06/07/15 03:06*	*B5F0168*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 70%*	*Limits: 11-102*	*06/07/15 03:06*	*B5F0168*	*JN1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 68%*	*Limits: 79-162*	*06/07/15 03:06*	*B5F0168*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: 7500-Ra B								
Radium-226	**0.45**	0.35		pCi/L		06/10/15 10:27	341235	UL
Radium-228	**0.66**	0.6		pCi/L		06/20/15 12:54	341235	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AW-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Test America, Irvine, CA, Subcontract							
Subcontracted Analyses (Continued)							
Method: SW 846 6010B							
Lithium	< 0.05	0.05		mg/L	06/08/15 00:00		TEST

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-1
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:55
Matrix: Groundwater
Lab ID: 15E0478-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**506.79**			No unit	05/28/15 08:55	B5F0736	PB
Depth to water (feet below land surface)	**6.93**			No unit	05/28/15 08:55	B5F0736	PB
Depth to water (feet from measuring point)	**9.20**			No unit	05/28/15 08:55	B5F0736	PB
Elevation of groundwater surface (Feet)	**528.60**			No unit	05/28/15 08:55	B5F0736	PB
Method: SM2510B							
Specific Conductance	**1430**	0.00		uS/cm	05/28/15 08:55	B5F0736	PB
Method: SM2550-B							
Temperature	**54.8**			°F	05/28/15 08:55	B5F0736	PB
Method: SM4500-H							
pH	**7.07**	0.05		pH Units	05/28/15 08:55	B5F0736	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Arsenic	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Barium	**0.360**	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Beryllium	< 0.00250	0.00250		mg/L	06/03/15 15:16	B5F0032	AG
Boron	**15.7**	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Cadmium	< 0.00250	0.00250		mg/L	06/03/15 15:16	B5F0032	AG
Calcium	**260**	1.25		mg/L	06/04/15 13:22	B5F0032	AG
Chromium	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Cobalt	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Copper	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Iron	**30.1**	0.125		mg/L	06/03/15 15:16	B5F0032	AG
Lead	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Manganese	**0.391**	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Nickel	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Selenium	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Silver	< 0.00250	0.00250		mg/L	06/03/15 15:16	B5F0032	AG
Thallium	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Zinc	< 0.0250	0.0250		mg/L	06/03/15 15:16	B5F0032	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	06/01/15 12:21	B5F0019	MB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-1
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:55
Matrix: Groundwater
Lab ID: 15E0478-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography								
Method: SW9056A								
Chloride	**50.7**	2.00		mg/L		05/29/15 00:21	B5E1197	DZ1
Fluoride	< 0.500	0.500		mg/L		05/29/15 00:21	B5E1197	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L		05/29/15 00:21	B5E1197	DZ1
Sulfate	**486**	50.0		mg/L		05/30/15 03:58	B5E1197	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1260**	10.0		mg/L		06/02/15 10:00	B5F0091	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/29/15 11:04	B5E1205	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		06/01/15 15:34	B5F0026	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.166	0.166		ug/L		06/17/15 18:58	B5E1255	LP
Atrazine	< 0.166	0.166		ug/L		06/17/15 18:58	B5E1255	LP
Chlordane	< 0.166	0.166		ug/L		06/17/15 18:58	B5E1255	LP
Endrin	< 0.0994	0.0994		ug/L		06/17/15 18:58	B5E1255	LP
Lindane	< 0.0994	0.0994		ug/L		06/17/15 18:58	B5E1255	LP
Heptachlor	< 0.0994	0.0994		ug/L		06/17/15 18:58	B5E1255	LP
Heptachlor epoxide	< 0.0994	0.0994		ug/L		06/17/15 18:58	B5E1255	LP
Methoxychlor	< 0.0994	0.0994		ug/L		06/17/15 18:58	B5E1255	LP
Simazine	< 0.166	0.166		ug/L		06/17/15 18:58	B5E1255	LP
Toxaphene	< 0.497	0.497		ug/L		06/17/15 18:58	B5E1255	LP
Surrogate: Decachlorobiphenyl				*Recovery: 57%*	*Limits: 30-135*	*06/17/15 18:58*	*B5E1255*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 36%*	*Limits: 44-124*	*06/17/15 18:58*	*B5E1255*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.331	0.331		ug/L		06/18/15 15:53	B5E1211	LP
Aroclor 1221	< 0.530	0.530		ug/L		06/18/15 15:53	B5E1211	LP
Aroclor 1232	< 0.663	0.663		ug/L		06/18/15 15:53	B5E1211	LP
Aroclor 1242	< 0.663	0.663		ug/L		06/18/15 15:53	B5E1211	LP
Aroclor 1248	< 0.663	0.663		ug/L		06/18/15 15:53	B5E1211	LP
Aroclor 1254	< 0.530	0.530		ug/L		06/18/15 15:53	B5E1211	LP
Aroclor 1260	< 0.331	0.331		ug/L		06/18/15 15:53	B5E1211	LP
Total PCB	< 0.663	0.663		ug/L		06/18/15 15:53	B5E1211	LP
Surrogate: Decachlorobiphenyl				*Recovery: 80%*	*Limits: 40-135*	*06/18/15 15:53*	*B5E1211*	*LP*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-1
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:55
Matrix: Groundwater
Lab ID: 15E0478-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 13-133*	*06/18/15 15:53*	*B5E1211*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/15 14:47	B5F0543	SG1
Carbofuran	< 2.00	2.00		ug/L		06/04/15 14:47	B5F0543	SG1
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.250	0.250		ug/L		06/09/15 21:51	B5F0054	JL
2,4-D	< 0.250	0.250		ug/L		06/09/15 21:51	B5F0054	JL
Dinoseb	< 0.250	0.250		ug/L		06/09/15 21:51	B5F0054	JL
Picloram	< 0.250	0.250		ug/L		06/09/15 21:51	B5F0054	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 56%*	*Limits: 20-138*	*06/09/15 21:51*	*B5F0054*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Benzene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Carbon tetrachloride	< 4.00	4.00		ug/L		06/04/15 00:06	B5F0222	KK1
Chlorobenzene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/04/15 00:06	B5F0222	KK1
Ethylbenzene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Dichloromethane	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Styrene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Tetrachloroethene	< 4.00	4.00		ug/L		06/04/15 00:06	B5F0222	KK1
Toluene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/04/15 00:06	B5F0222	KK1
Trichloroethene	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Vinyl chloride	< 2.00	2.00		ug/L		06/04/15 00:06	B5F0222	KK1
Xylenes, Total	< 8.00	8.00		ug/L		06/04/15 00:06	B5F0222	KK1
Surrogate: Dibromofluoromethane				*Recovery: 102%*	*Limits: 80-119*	*06/04/15 00:06*	*B5F0222*	*KK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 115%*	*Limits: 81-118*	*06/04/15 00:06*	*B5F0222*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*06/04/15 00:06*	*B5F0222*	*KK1*
Surrogate: Toluene-d8				*Recovery: 104%*	*Limits: 89-112*	*06/04/15 00:06*	*B5F0222*	*KK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*	*06/04/15 00:06*	*B5F0222*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 70-120*	*06/04/15 00:06*	*B5F0222*	*KK1*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-1
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:55
Matrix: Groundwater
Lab ID: 15E0478-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		06/04/15 08:47	B5F0213	SJ1
Ethylene Dibromide	< 0.100	0.100		ug/L		06/04/15 08:47	B5F0213	SJ1
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/07/15 01:41	B5F0301	mnn
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 112%*	*Limits: 70-130*	*06/07/15 01:41*	*B5F0301*	*mnn*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		06/09/15 14:24	B5F0120	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 20-200*	*06/09/15 14:24*	*B5F0120*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.660	0.660		ug/L		06/07/15 03:50	B5F0168	JN1
o-Dichlorobenzene	< 0.660	0.660		ug/L		06/07/15 03:50	B5F0168	JN1
p-Dichlorobenzene	< 0.660	0.660		ug/L		06/07/15 03:50	B5F0168	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		06/07/15 03:50	B5F0168	JN1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		06/07/15 03:50	B5F0168	JN1
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		06/07/15 03:50	B5F0168	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		06/07/15 03:50	B5F0168	JN1
Surrogate: 2-Fluorophenol				*Recovery: 19%*	*Limits: 4-108*	*06/07/15 03:50*	*B5F0168*	*JN1*
Surrogate: Phenol-d5				*Recovery: 15%*	*Limits: 1-101*	*06/07/15 03:50*	*B5F0168*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*06/07/15 03:50*	*B5F0168*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 43%*	*Limits: 28-124*	*06/07/15 03:50*	*B5F0168*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 52%*	*Limits: 11-102*	*06/07/15 03:50*	*B5F0168*	*JN1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 65%*	*Limits: 79-162*	*06/07/15 03:50*	*B5F0168*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: 7500-Ra B								
Radium-226	**0.75**	0.32		pCi/L		06/10/15 10:27	341235	UL
Radium-228	**0.87**	0.43		pCi/L		06/20/15 12:54	341235	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								

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Client Sample Results

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 08:55
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Test America, Irvine, CA, Subcontract							
Subcontracted Analyses (Continued)							
Method: SW 846 6010B							
Lithium	< 0.05	0.05		mg/L	06/08/15 00:00		TEST

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-2
Report Date: 06/30/2015
Collection Date: 05/28/2015 11:30
Matrix: Groundwater
Lab ID: 15E0478-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**520.62**			No unit	05/28/15 11:30	B5F0736	PB
Depth to water (feet below land surface)	**4.45**			No unit	05/28/15 11:30	B5F0736	PB
Depth to water (feet from measuring point)	**6.69**			No unit	05/28/15 11:30	B5F0736	PB
Elevation of groundwater surface (Feet)	**533.61**			No unit	05/28/15 11:30	B5F0736	PB
Method: SM2510B							
Specific Conductance	**1610**	0.00		uS/cm	05/28/15 11:30	B5F0736	PB
Method: SM2550-B							
Temperature	**60.7**			°F	05/28/15 11:30	B5F0736	PB
Method: SM4500-H							
pH	**6.86**	0.05		pH Units	05/28/15 11:30	B5F0736	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Arsenic	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Barium	**0.254**	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Beryllium	< 0.00250	0.00250		mg/L	06/03/15 15:18	B5F0032	AG
Boron	**4.51**	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Cadmium	< 0.00250	0.00250		mg/L	06/03/15 15:18	B5F0032	AG
Calcium	**350**	1.25		mg/L	06/04/15 13:24	B5F0032	AG
Chromium	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Cobalt	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Copper	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Iron	**21.3**	0.125		mg/L	06/03/15 15:18	B5F0032	AG
Lead	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Manganese	**25.5**	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Nickel	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Selenium	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Silver	< 0.00250	0.00250		mg/L	06/03/15 15:18	B5F0032	AG
Thallium	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Zinc	< 0.0250	0.0250		mg/L	06/03/15 15:18	B5F0032	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	06/01/15 12:23	B5F0019	MB1

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-2
Report Date: 06/30/2015
Collection Date: 05/28/2015 11:30
Matrix: Groundwater
Lab ID: 15E0478-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**25.6**	2.00		mg/L	05/29/15 01:03	B5E1197	DZ1
Fluoride	< 0.500	0.500		mg/L	05/29/15 01:03	B5E1197	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/29/15 01:03	B5E1197	DZ1
Sulfate	**686**	50.0		mg/L	05/30/15 04:40	B5E1197	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1460**	10.0		mg/L	06/02/15 10:00	B5F0091	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	05/29/15 14:54	B5E1236	ML3
Method: SW9065 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/01/15 15:34	B5F0026	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.166	0.166		ug/L	06/17/15 19:45	B5E1255	LP
Atrazine	< 0.166	0.166		ug/L	06/17/15 19:45	B5E1255	LP
Chlordane	< 0.166	0.166		ug/L	06/17/15 19:45	B5E1255	LP
Endrin	< 0.0996	0.0996		ug/L	06/17/15 19:45	B5E1255	LP
Lindane	< 0.0996	0.0996		ug/L	06/17/15 19:45	B5E1255	LP
Heptachlor	< 0.0996	0.0996		ug/L	06/17/15 19:45	B5E1255	LP
Heptachlor epoxide	< 0.0996	0.0996		ug/L	06/17/15 19:45	B5E1255	LP
Methoxychlor	< 0.0996	0.0996		ug/L	06/17/15 19:45	B5E1255	LP
Simazine	< 0.166	0.166		ug/L	06/17/15 19:45	B5E1255	LP
Toxaphene	< 0.498	0.498		ug/L	06/17/15 19:45	B5E1255	LP
Surrogate: Decachlorobiphenyl				*Recovery: 97%*	*Limits: 30-135*	*06/17/15 19:45*	*B5E1255*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 60%*	*Limits: 44-124*	*06/17/15 19:45*	*B5E1255*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.332	0.332		ug/L	06/18/15 16:22	B5E1211	LP
Aroclor 1221	< 0.531	0.531		ug/L	06/18/15 16:22	B5E1211	LP
Aroclor 1232	< 0.664	0.664		ug/L	06/18/15 16:22	B5E1211	LP
Aroclor 1242	< 0.664	0.664		ug/L	06/18/15 16:22	B5E1211	LP
Aroclor 1248	< 0.664	0.664		ug/L	06/18/15 16:22	B5E1211	LP
Aroclor 1254	< 0.531	0.531		ug/L	06/18/15 16:22	B5E1211	LP
Aroclor 1260	< 0.332	0.332		ug/L	06/18/15 16:22	B5E1211	LP
Total PCB	< 0.664	0.664		ug/L	06/18/15 16:22	B5E1211	LP
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 40-135*	*06/18/15 16:22*	*B5E1211*	*LP*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-2
Report Date: 06/30/2015
Collection Date: 05/28/2015 11:30
Matrix: Groundwater
Lab ID: 15E0478-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 64%*	*Limits: 13-133*	*06/18/15 16:22*	*B5E1211*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/04/15 15:23	B5F0543	SG1
Carbofuran	< 2.00	2.00		ug/L		06/04/15 15:23	B5F0543	SG1
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.249	0.249		ug/L		06/09/15 22:33	B5F0054	JL
2,4-D	< 0.249	0.249		ug/L		06/09/15 22:33	B5F0054	JL
Dinoseb	< 0.249	0.249		ug/L		06/09/15 22:33	B5F0054	JL
Picloram	< 0.249	0.249		ug/L		06/09/15 22:33	B5F0054	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 86%*	*Limits: 20-138*	*06/09/15 22:33*	*B5F0054*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Benzene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/29/15 16:21	B5F0228	KK1
Chlorobenzene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/29/15 16:21	B5F0228	KK1
Ethylbenzene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Dichloromethane	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Styrene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/29/15 16:21	B5F0228	KK1
Toluene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/29/15 16:21	B5F0228	KK1
Trichloroethene	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Vinyl chloride	< 2.00	2.00		ug/L		05/29/15 16:21	B5F0228	KK1
Xylenes, Total	< 8.00	8.00		ug/L		05/29/15 16:21	B5F0228	KK1
Surrogate: Dibromofluoromethane				*Recovery: 113%*	*Limits: 80-119*	*05/29/15 16:21*	*B5F0228*	*KK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 115%*	*Limits: 81-118*	*05/29/15 16:21*	*B5F0228*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/29/15 16:21*	*B5F0228*	*KK1*
Surrogate: Toluene-d8				*Recovery: 94%*	*Limits: 89-112*	*05/29/15 16:21*	*B5F0228*	*KK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 105%*	*Limits: 85-114*	*05/29/15 16:21*	*B5F0228*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 105%*	*Limits: 70-120*	*05/29/15 16:21*	*B5F0228*	*KK1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-2
Report Date: 06/30/2015
Collection Date: 05/28/2015 11:30
Matrix: Groundwater
Lab ID: 15E0478-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		06/04/15 12:29	B5F0213	SJ1
Ethylene Dibromide	< 0.100	0.100		ug/L		06/04/15 12:29	B5F0213	SJ1
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/07/15 02:20	B5F0301	mnn
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 95%*	*Limits: 70-130*	*06/07/15 02:20*	*B5F0301*	*mnn*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		06/09/15 15:06	B5F0120	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 20-200*	*06/09/15 15:06*	*B5F0120*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.651	0.651		ug/L		06/07/15 04:34	B5F0168	JN1
o-Dichlorobenzene	< 0.651	0.651		ug/L		06/07/15 04:34	B5F0168	JN1
p-Dichlorobenzene	< 0.651	0.651		ug/L		06/07/15 04:34	B5F0168	JN1
Benzo(a)pyrene	< 1.30	1.30		ug/L		06/07/15 04:34	B5F0168	JN1
Di(2-ethylhexyl)phthalate	< 1.30	1.30		ug/L		06/07/15 04:34	B5F0168	JN1
Hexachlorocyclopentadiene	< 3.26	3.26		ug/L		06/07/15 04:34	B5F0168	JN1
Pentachlorophenol	< 13.0	13.0		ug/L		06/07/15 04:34	B5F0168	JN1
Surrogate: 2-Fluorophenol				*Recovery: 6%*	*Limits: 4-108*	*06/07/15 04:34*	*B5F0168*	*JN1*
Surrogate: Phenol-d5				*Recovery: 7%*	*Limits: 1-101*	*06/07/15 04:34*	*B5F0168*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 46%*	*Limits: 23-119*	*06/07/15 04:34*	*B5F0168*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 46%*	*Limits: 28-124*	*06/07/15 04:34*	*B5F0168*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 45%*	*Limits: 11-102*	*06/07/15 04:34*	*B5F0168*	*JN1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 68%*	*Limits: 79-162*	*06/07/15 04:34*	*B5F0168*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses							
Method: 7500-Ra B							
Radium-226	**0.76**	0.28		pCi/L	06/15/15 09:56	341235	UL
Radium-228	**0.31**	0.81		pCi/L	06/20/15 12:54	341235	UL

Test America, Irvine, CA, Subcontract

Subcontracted Analyses

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 11:30
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Test America, Irvine, CA, Subcontract							
Subcontracted Analyses (Continued)							
Method: SW 846 6010B							
Lithium	< 0.05	0.05		mg/L	06/08/15 00:00		TEST

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Client Sample Results

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 10:15
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**516.58**			No unit	05/28/15 10:15	B5F0736	PB
Depth to water (feet below land surface)	**4.93**			No unit	05/28/15 10:15	B5F0736	PB
Depth to water (feet from measuring point)	**6.63**			No unit	05/28/15 10:15	B5F0736	PB
Elevation of groundwater surface (Feet)	**528.97**			No unit	05/28/15 10:15	B5F0736	PB
Method: SM2510B							
Specific Conductance	**1120**	0.00		uS/cm	05/28/15 10:15	B5F0736	PB
Method: SM2550-B							
Temperature	**58.3**			°F	05/28/15 10:15	B5F0736	PB
Method: SM4500-H							
pH	**7.00**	0.05		pH Units	05/28/15 10:15	B5F0736	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Arsenic	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Barium	**0.136**	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Beryllium	< 0.00250	0.00250		mg/L	06/03/15 15:20	B5F0032	AG
Boron	**16.4**	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Cadmium	< 0.00250	0.00250		mg/L	06/03/15 15:20	B5F0032	AG
Calcium	**169**	1.25		mg/L	06/04/15 13:26	B5F0032	AG
Chromium	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Cobalt	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Copper	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Iron	**22.2**	0.125		mg/L	06/03/15 15:20	B5F0032	AG
Lead	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Manganese	**9.11**	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Nickel	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Selenium	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Silver	< 0.00250	0.00250		mg/L	06/03/15 15:20	B5F0032	AG
Thallium	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Zinc	< 0.0250	0.0250		mg/L	06/03/15 15:20	B5F0032	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	06/01/15 12:25	B5F0019	MB1

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 10:15
Matrix: Groundwater
Lab ID: 15E0478-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**40.6**	2.00		mg/L	05/29/15 01:45	B5E1197	DZ1
Fluoride	< 0.500	0.500		mg/L	05/29/15 01:45	B5E1197	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/29/15 01:45	B5E1197	DZ1
Sulfate	**332**	50.0		mg/L	05/30/15 05:23	B5E1197	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**900**	10.0		mg/L	06/02/15 10:00	B5F0091	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	05/29/15 14:54	B5E1236	ML3
Method: SW9065 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/01/15 15:34	B5F0026	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.165	0.165		ug/L	06/17/15 20:31	B5E1255	LP
Atrazine	< 0.165	0.165		ug/L	06/17/15 20:31	B5E1255	LP
Chlordane	< 0.165	0.165		ug/L	06/17/15 20:31	B5E1255	LP
Endrin	< 0.0990	0.0990		ug/L	06/17/15 20:31	B5E1255	LP
Lindane	< 0.0990	0.0990		ug/L	06/17/15 20:31	B5E1255	LP
Heptachlor	< 0.0990	0.0990		ug/L	06/17/15 20:31	B5E1255	LP
Heptachlor epoxide	< 0.0990	0.0990		ug/L	06/17/15 20:31	B5E1255	LP
Methoxychlor	< 0.0990	0.0990		ug/L	06/17/15 20:31	B5E1255	LP
Simazine	< 0.165	0.165		ug/L	06/17/15 20:31	B5E1255	LP
Toxaphene	< 0.495	0.495		ug/L	06/17/15 20:31	B5E1255	LP
Surrogate: Decachlorobiphenyl				*Recovery: 61%* *Limits: 30-135*	*06/17/15 20:31*	*B5E1255*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 37%* *Limits: 44-124*	*06/17/15 20:31*	*B5E1255*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.330	0.330		ug/L	06/18/15 16:51	B5E1211	LP
Aroclor 1221	< 0.528	0.528		ug/L	06/18/15 16:51	B5E1211	LP
Aroclor 1232	< 0.660	0.660		ug/L	06/18/15 16:51	B5E1211	LP
Aroclor 1242	< 0.660	0.660		ug/L	06/18/15 16:51	B5E1211	LP
Aroclor 1248	< 0.660	0.660		ug/L	06/18/15 16:51	B5E1211	LP
Aroclor 1254	< 0.528	0.528		ug/L	06/18/15 16:51	B5E1211	LP
Aroclor 1260	< 0.330	0.330		ug/L	06/18/15 16:51	B5E1211	LP
Total PCB	< 0.660	0.660		ug/L	06/18/15 16:51	B5E1211	LP
Surrogate: Decachlorobiphenyl				*Recovery: 65%* *Limits: 40-135*	*06/18/15 16:51*	*B5E1211*	*LP*

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Client Sample Results

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 10:15
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 13-133*	*06/18/15 16:51*	*B5E1211*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/11/15 12:57	B5F1090	SG1
Carbofuran	< 2.00	2.00		ug/L		06/11/15 12:57	B5F1090	SG1
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.248	0.248		ug/L		06/09/15 23:15	B5F0054	JL
2,4-D	< 0.248	0.248		ug/L		06/09/15 23:15	B5F0054	JL
Dinoseb	< 0.248	0.248		ug/L		06/09/15 23:15	B5F0054	JL
Picloram	< 0.248	0.248		ug/L		06/09/15 23:15	B5F0054	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 92%*	*Limits: 20-138*	*06/09/15 23:15*	*B5F0054*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Benzene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Carbon tetrachloride	< 4.00	4.00		ug/L		06/04/15 00:39	B5F0222	KK1
Chlorobenzene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/04/15 00:39	B5F0222	KK1
Ethylbenzene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Dichloromethane	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Styrene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Tetrachloroethene	< 4.00	4.00		ug/L		06/04/15 00:39	B5F0222	KK1
Toluene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/04/15 00:39	B5F0222	KK1
Trichloroethene	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Vinyl chloride	< 2.00	2.00		ug/L		06/04/15 00:39	B5F0222	KK1
Xylenes, Total	< 6.00	6.00		ug/L		06/04/15 00:39	B5F0222	KK1
Surrogate: Dibromofluoromethane				*Recovery: 101%*	*Limits: 80-119*	*06/04/15 00:39*	*B5F0222*	*KK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 114%*	*Limits: 81-118*	*06/04/15 00:39*	*B5F0222*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*06/04/15 00:39*	*B5F0222*	*KK1*
Surrogate: Toluene-d8				*Recovery: 102%*	*Limits: 89-112*	*06/04/15 00:39*	*B5F0222*	*KK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 85-114*	*06/04/15 00:39*	*B5F0222*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 70-120*	*06/04/15 00:39*	*B5F0222*	*KK1*

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-3
Report Date: 06/30/2015
Collection Date: 05/28/2015 10:15
Matrix: Groundwater
Lab ID: 15E0478-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		06/03/15 21:16	B5F0213	SJ1
Ethylene Dibromide	< 0.100	0.100		ug/L		06/03/15 21:16	B5F0213	SJ1
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/07/15 07:30	B5F0301	mnn
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 106%*	*Limits: 70-130*	*06/07/15 07:30*	*B5F0301*	*mnn*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		06/09/15 15:47	B5F0120	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 64%*	*Limits: 20-200*	*06/09/15 15:47*	*B5F0120*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.649	0.649		ug/L		06/07/15 05:18	B5F0168	JN1
o-Dichlorobenzene	< 0.649	0.649		ug/L		06/07/15 05:18	B5F0168	JN1
p-Dichlorobenzene	< 0.649	0.649		ug/L		06/07/15 05:18	B5F0168	JN1
Benzo(a)pyrene	< 1.30	1.30		ug/L		06/07/15 05:18	B5F0168	JN1
Di(2-ethylhexyl)phthalate	< 1.30	1.30		ug/L		06/07/15 05:18	B5F0168	JN1
Hexachlorocyclopentadiene	< 3.25	3.25		ug/L		06/07/15 05:18	B5F0168	JN1
Pentachlorophenol	< 13.0	13.0		ug/L		06/07/15 05:18	B5F0168	JN1
Surrogate: 2-Fluorophenol				*Recovery: 8%*	*Limits: 4-108*	*06/07/15 05:18*	*B5F0168*	*JN1*
Surrogate: Phenol-d5				*Recovery: 7%*	*Limits: 1-101*	*06/07/15 05:18*	*B5F0168*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 61%*	*Limits: 23-119*	*06/07/15 05:18*	*B5F0168*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 59%*	*Limits: 28-124*	*06/07/15 05:18*	*B5F0168*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 64%*	*Limits: 11-102*	*06/07/15 05:18*	*B5F0168*	*JN1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 74%*	*Limits: 79-162*	*06/07/15 05:18*	*B5F0168*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: 7500-Ra B								
Radium-226	**0.43**	0.26		pCi/L		06/10/15 10:27	341235	UL
Radium-228	**-0.21**	0.74		pCi/L		06/20/15 12:54	341235	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								

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Client Sample Results

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 10:15
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Test America, Irvine, CA, Subcontract							
Subcontracted Analyses (Continued)							
Method: SW 846 6010B							
Lithium	< 0.05	0.05		mg/L	06/08/15 00:00		TEST

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Client Sample Results

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 09:40
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**491.82**			No unit	05/28/15 09:40	B5F0736	PB
Depth to water (feet below land surface)	**5.89**			No unit	05/28/15 09:40	B5F0736	PB
Depth to water (feet from measuring point)	**11.19**			No unit	05/28/15 09:40	B5F0736	PB
Elevation of groundwater surface (Feet)	**543.41**			No unit	05/28/15 09:40	B5F0736	PB
Method: SM2510B							
Specific Conductance	**820**	0.00		uS/cm	05/28/15 09:40	B5F0736	PB
Method: SM2550-B							
Temperature	**60.1**			°F	05/28/15 09:40	B5F0736	PB
Method: SM4500-H							
pH	**7.45**	0.05		pH Units	05/28/15 09:40	B5F0736	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Arsenic	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Barium	**0.301**	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Beryllium	< 0.00250	0.00250		mg/L	06/03/15 15:21	B5F0032	AG
Boron	**0.123**	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Cadmium	< 0.00250	0.00250		mg/L	06/03/15 15:21	B5F0032	AG
Calcium	**121**	1.25		mg/L	06/04/15 13:27	B5F0032	AG
Chromium	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Cobalt	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Copper	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Iron	**2.08**	0.125		mg/L	06/03/15 15:21	B5F0032	AG
Lead	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Manganese	**0.0878**	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Nickel	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Selenium	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Silver	< 0.00250	0.00250		mg/L	06/03/15 15:21	B5F0032	AG
Thallium	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Zinc	< 0.0250	0.0250		mg/L	06/03/15 15:21	B5F0032	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	06/03/15 12:51	B5F0135	MB1

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-4
Report Date: 06/30/2015
Collection Date: 05/28/2015 09:40
Matrix: Groundwater
Lab ID: 15E0478-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography								
Method: SW9056A								
Chloride	**15.1**	2.00		mg/L		05/29/15 04:34	B5E1197	DZ1
Fluoride	< 0.500	0.500		mg/L		05/29/15 04:34	B5E1197	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L		05/29/15 04:34	B5E1197	DZ1
Sulfate	< 5.00	5.00		mg/L		05/29/15 04:34	B5E1197	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**502**	10.0		mg/L		06/02/15 10:00	B5F0091	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/29/15 14:54	B5E1236	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	**0.0132**	0.0100		mg/L		06/02/15 13:37	B5F0075	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.164	0.164		ug/L		06/17/15 21:18	B5E1255	LP
Atrazine	< 0.164	0.164		ug/L		06/17/15 21:18	B5E1255	LP
Chlordane	< 0.164	0.164		ug/L		06/17/15 21:18	B5E1255	LP
Endrin	< 0.0987	0.0987		ug/L		06/17/15 21:18	B5E1255	LP
Lindane	< 0.0987	0.0987		ug/L		06/17/15 21:18	B5E1255	LP
Heptachlor	< 0.0987	0.0987		ug/L		06/17/15 21:18	B5E1255	LP
Heptachlor epoxide	< 0.0987	0.0987		ug/L		06/17/15 21:18	B5E1255	LP
Methoxychlor	< 0.0987	0.0987		ug/L		06/17/15 21:18	B5E1255	LP
Simazine	< 0.164	0.164		ug/L		06/17/15 21:18	B5E1255	LP
Toxaphene	< 0.493	0.493		ug/L		06/17/15 21:18	B5E1255	LP
Surrogate: Decachlorobiphenyl				*Recovery: 52%*	*Limits: 30-135*	*06/17/15 21:18*	*B5E1255*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 36%*	*Limits: 44-124*	*06/17/15 21:18*	*B5E1255*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.329	0.329		ug/L		06/18/15 17:20	B5E1211	LP
Aroclor 1221	< 0.526	0.526		ug/L		06/18/15 17:20	B5E1211	LP
Aroclor 1232	< 0.658	0.658		ug/L		06/18/15 17:20	B5E1211	LP
Aroclor 1242	< 0.658	0.658		ug/L		06/18/15 17:20	B5E1211	LP
Aroclor 1248	< 0.658	0.658		ug/L		06/18/15 17:20	B5E1211	LP
Aroclor 1254	< 0.526	0.526		ug/L		06/18/15 17:20	B5E1211	LP
Aroclor 1260	< 0.329	0.329		ug/L		06/18/15 17:20	B5E1211	LP
Total PCB	< 0.658	0.658		ug/L		06/18/15 17:20	B5E1211	LP
Surrogate: Decachlorobiphenyl				*Recovery: 84%*	*Limits: 40-135*	*06/18/15 17:20*	*B5E1211*	*LP*

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-4
Report Date: 06/30/2015
Collection Date: 05/28/2015 09:40
Matrix: Groundwater
Lab ID: 15E0478-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 63%*	*Limits: 13-133*	*06/18/15 17:20*	*B5E1211*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/11/15 13:33	B5F1090	SG1
Carbofuran	< 2.00	2.00		ug/L		06/11/15 13:33	B5F1090	SG1
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.247	0.247		ug/L		06/09/15 23:58	B5F0054	JL
2,4-D	< 0.247	0.247		ug/L		06/09/15 23:58	B5F0054	JL
Dinoseb	< 0.247	0.247		ug/L		06/09/15 23:58	B5F0054	JL
Picloram	< 0.247	0.247		ug/L		06/09/15 23:58	B5F0054	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 70%*	*Limits: 20-138*	*06/09/15 23:58*	*B5F0054*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Benzene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Carbon tetrachloride	< 4.00	4.00		ug/L		06/04/15 01:12	B5F0222	KK1
Chlorobenzene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/04/15 01:12	B5F0222	KK1
Ethylbenzene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Dichloromethane	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Styrene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Tetrachloroethene	< 4.00	4.00		ug/L		06/04/15 01:12	B5F0222	KK1
Toluene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/04/15 01:12	B5F0222	KK1
Trichloroethene	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Vinyl chloride	< 2.00	2.00		ug/L		06/04/15 01:12	B5F0222	KK1
Xylenes, Total	< 8.00	8.00		ug/L		06/04/15 01:12	B5F0222	KK1
Surrogate: Dibromofluoromethane				*Recovery: 102%*	*Limits: 80-119*	*06/04/15 01:12*	*B5F0222*	*KK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 114%*	*Limits: 81-118*	*06/04/15 01:12*	*B5F0222*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*06/04/15 01:12*	*B5F0222*	*KK1*
Surrogate: Toluene-d8				*Recovery: 105%*	*Limits: 89-112*	*06/04/15 01:12*	*B5F0222*	*KK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*	*06/04/15 01:12*	*B5F0222*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 103%*	*Limits: 70-120*	*06/04/15 01:12*	*B5F0222*	*KK1*

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-4
Report Date: 06/30/2015
Collection Date: 05/28/2015 09:40
Matrix: Groundwater
Lab ID: 15E0478-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		06/03/15 22:19	B5F0213	SJ1
Ethylene Dibromide	< 0.100	0.100		ug/L		06/03/15 22:19	B5F0213	SJ1
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/07/15 03:37	B5F0301	mnn
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 88%*	*Limits: 70-130*	*06/07/15 03:37*	*B5F0301*	*mnn*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		06/09/15 16:29	B5F0120	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 66%*	*Limits: 20-200*	*06/09/15 16:29*	*B5F0120*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.656	0.656		ug/L		06/10/15 22:28	B5F0168	JN1
o-Dichlorobenzene	< 0.656	0.656		ug/L		06/10/15 22:28	B5F0168	JN1
p-Dichlorobenzene	< 0.656	0.656		ug/L		06/10/15 22:28	B5F0168	JN1
Benzo(a)pyrene	< 1.31	1.31		ug/L		06/10/15 22:28	B5F0168	JN1
Di(2-ethylhexyl)phthalate	< 1.31	1.31		ug/L		06/10/15 22:28	B5F0168	JN1
Hexachlorocyclopentadiene	< 3.28	3.28		ug/L		06/10/15 22:28	B5F0168	JN1
Pentachlorophenol	< 13.1	13.1		ug/L		06/10/15 22:28	B5F0168	JN1
Surrogate: 2-Fluorophenol				*Recovery: 22%*	*Limits: 4-108*	*06/10/15 22:28*	*B5F0168*	*JN1*
Surrogate: Phenol-d5				*Recovery: 15%*	*Limits: 1-101*	*06/10/15 22:28*	*B5F0168*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 54%*	*Limits: 23-119*	*06/10/15 22:28*	*B5F0168*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 53%*	*Limits: 28-124*	*06/10/15 22:28*	*B5F0168*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 56%*	*Limits: 11-102*	*06/10/15 22:28*	*B5F0168*	*JN1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 73%*	*Limits: 79-162*	*06/10/15 22:28*	*B5F0168*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: 7500-Ra B								
Radium-226	**0.72**	0.34		pCi/L		06/15/15 09:56	341235	UL
Radium-228	**0.19**	0.35		pCi/L		06/20/15 12:54	341235	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 09:40
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Test America, Irvine, CA, Subcontract							
Subcontracted Analyses (Continued)							
Method: SW 846 6010B							
Lithium	< 0.05	0.05		mg/L	06/08/15 00:00		TEST

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 08:10
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**552.71**			No unit	05/28/15 08:10	B5F0736	FO1
Depth to water (feet below land surface)	**8.31**			No unit	05/28/15 08:10	B5F0736	FO1
Depth to water (feet from measuring point)	**10.61**			No unit	05/28/15 08:10	B5F0736	FO1
Elevation of groundwater surface (Feet)	**573.29**			No unit	05/28/15 08:10	B5F0736	FO1
Method: SM2510B							
Specific Conductance	**712**	0.00		uS/cm	05/28/15 08:10	B5F0736	FO1
Method: SM2550-B							
Temperature	**55.9**			°F	05/28/15 08:10	B5F0736	FO1
Method: SM4500-H							
pH	**7.16**	0.05		pH Units	05/28/15 08:10	B5F0736	FO1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Arsenic	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Barium	**0.109**	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Beryllium	< 0.00250	0.00250		mg/L	06/03/15 15:39	B5F0032	AG
Boron	**0.0379**	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Cadmium	< 0.00250	0.00250		mg/L	06/03/15 15:39	B5F0032	AG
Calcium	**103**	1.25		mg/L	06/04/15 13:36	B5F0032	AG
Chromium	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Cobalt	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Copper	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Iron	**18.0**	0.125		mg/L	06/03/15 15:39	B5F0032	AG
Lead	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Manganese	**0.390**	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Nickel	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Selenium	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Silver	< 0.00250	0.00250		mg/L	06/03/15 15:39	B5F0032	AG
Thallium	< 0.0250	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Zinc	**0.0409**	0.0250		mg/L	06/03/15 15:39	B5F0032	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	06/03/15 12:53	B5F0135	MB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-5
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**4.79**	2.00		mg/L	05/29/15 05:17	B5E1197	DZ1
Fluoride	< 0.500	0.500		mg/L	05/29/15 05:17	B5E1197	DZ1
Nitrogen, Nitrate	**1.62**	0.500		mg/L	05/29/15 05:17	B5E1197	DZ1
Sulfate	**48.2**	5.00		mg/L	05/29/15 05:17	B5E1197	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**388**	10.0		mg/L	06/02/15 10:00	B5F0091	TB2
Method: SW9014 by Aquachem / SW9010B							
Cyanide	< 0.010	0.010		mg/L	05/29/15 14:54	B5E1236	ML3
Method: SW9065 by Aquachem							
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L	06/02/15 13:37	B5F0075	ML3
Organochlorine Pesticides by GC/ECD							
Method: SW8081B / SW3510							
Alachlor	< 0.164	0.164		ug/L	06/17/15 22:04	B5F0112	LP
Atrazine	< 0.164	0.164		ug/L	06/17/15 22:04	B5F0112	LP
Chlordane	< 0.164	0.164		ug/L	06/17/15 22:04	B5F0112	LP
Endrin	< 0.0986	0.0986		ug/L	06/17/15 22:04	B5F0112	LP
Lindane	< 0.0986	0.0986		ug/L	06/17/15 22:04	B5F0112	LP
Heptachlor	< 0.0986	0.0986		ug/L	06/17/15 22:04	B5F0112	LP
Heptachlor epoxide	< 0.0986	0.0986		ug/L	06/17/15 22:04	B5F0112	LP
Methoxychlor	< 0.0986	0.0986		ug/L	06/17/15 22:04	B5F0112	LP
Simazine	< 0.164	0.164		ug/L	06/17/15 22:04	B5F0112	LP
Toxaphene	< 0.493	0.493		ug/L	06/17/15 22:04	B5F0112	LP
Surrogate: Decachlorobiphenyl				*Recovery: 50%*	*Limits: 30-135*	*06/17/15 22:04*	*B5F0112*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 24%*	*Limits: 44-124*	*06/17/15 22:04*	*B5F0112*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD							
Method: SW8082A / SW3510							
Aroclor 1016	< 0.329	0.329		ug/L	06/18/15 18:04	B5F0114	LP
Aroclor 1221	< 0.526	0.526		ug/L	06/18/15 18:04	B5F0114	LP
Aroclor 1232	< 0.657	0.657		ug/L	06/18/15 18:04	B5F0114	LP
Aroclor 1242	< 0.657	0.657		ug/L	06/18/15 18:04	B5F0114	LP
Aroclor 1248	< 0.657	0.657		ug/L	06/18/15 18:04	B5F0114	LP
Aroclor 1254	< 0.526	0.526		ug/L	06/18/15 18:04	B5F0114	LP
Aroclor 1260	< 0.329	0.329		ug/L	06/18/15 18:04	B5F0114	LP
Total PCB	< 0.657	0.657		ug/L	06/18/15 18:04	B5F0114	LP
Surrogate: Decachlorobiphenyl				*Recovery: 70%*	*Limits: 40-135*	*06/18/15 18:04*	*B5F0114*	*LP*

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-5
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)								
Method: SW8082A / SW3510 (Continued)								
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 40%*	*Limits: 13-133*	*06/18/15 18:04*	*B5F0114*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/03/15 14:24	B5F0273	SG1
Carbofuran	< 2.00	2.00		ug/L		06/03/15 14:24	B5F0273	SG1
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.250	0.250		ug/L		06/10/15 00:40	B5F0054	JL
2,4-D	< 0.250	0.250		ug/L		06/10/15 00:40	B5F0054	JL
Dinoseb	< 0.250	0.250		ug/L		06/10/15 00:40	B5F0054	JL
Picloram	< 0.250	0.250		ug/L		06/10/15 00:40	B5F0054	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 53%*	*Limits: 20-138*	*06/10/15 00:40*	*B5F0054*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Benzene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Carbon tetrachloride	< 4.00	4.00		ug/L		06/02/15 02:03	B5F0242	KK1
Chlorobenzene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/02/15 02:03	B5F0242	KK1
Ethylbenzene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Dichloromethane	< 2.00	2.00		ug/L		06/04/15 18:29	B5F0420	KK1
Styrene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Tetrachloroethene	< 4.00	4.00		ug/L		06/02/15 02:03	B5F0242	KK1
Toluene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		06/02/15 02:03	B5F0242	KK1
Trichloroethene	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Vinyl chloride	< 2.00	2.00		ug/L		06/02/15 02:03	B5F0242	KK1
Xylenes, Total	< 6.00	6.00		ug/L		06/02/15 02:03	B5F0242	KK1
Surrogate: Dibromofluoromethane			*S*	*Recovery: 126%*	*Limits: 80-119*	*06/04/15 18:29*	*B5F0420*	*KK1*
Surrogate: Dibromofluoromethane				*Recovery: 111%*	*Limits: 80-119*	*06/02/15 02:03*	*B5F0242*	*KK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 112%*	*Limits: 81-118*	*06/04/15 18:29*	*B5F0420*	*KK1*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 122%*	*Limits: 81-118*	*06/02/15 02:03*	*B5F0242*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*06/02/15 02:03*	*B5F0242*	*KK1*
Surrogate: Fluorobenzene				*Recovery: 95%*	*Limits: 80-116*	*06/04/15 18:29*	*B5F0420*	*KK1*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Client Sample ID: AP-5
Report Date: 06/30/2015
Collection Date: 05/28/2015 08:10
Matrix: Groundwater
Lab ID: 15E0478-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5030 (Continued)								
Surrogate: Toluene-d8				*Recovery: 89%*	*Limits: 89-112*	*06/04/15 18:29*	*B5F0420*	*KK1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 89-112*	*06/02/15 02:03*	*B5F0242*	*KK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 103%*	*Limits: 85-114*	*06/02/15 02:03*	*B5F0242*	*KK1*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 117%*	*Limits: 85-114*	*06/04/15 18:29*	*B5F0420*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 105%*	*Limits: 70-120*	*06/02/15 02:03*	*B5F0242*	*KK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 120%*	*Limits: 70-120*	*06/04/15 18:29*	*B5F0420*	*KK1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		06/03/15 22:50	B5F0213	SJ1
Ethylene Dibromide	< 0.100	0.100		ug/L		06/03/15 22:50	B5F0213	SJ1
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		06/07/15 04:16	B5F0301	mnn
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 105%*	*Limits: 70-130*	*06/07/15 04:16*	*B5F0301*	*mnn*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		06/09/15 17:10	B5F0120	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 62%*	*Limits: 20-200*	*06/09/15 17:10*	*B5F0120*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.658	0.658		ug/L		06/10/15 23:11	B5F0168	JN1
o-Dichlorobenzene	< 0.658	0.658		ug/L		06/10/15 23:11	B5F0168	JN1
p-Dichlorobenzene	< 0.658	0.658		ug/L		06/10/15 23:11	B5F0168	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		06/10/15 23:11	B5F0168	JN1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		06/10/15 23:11	B5F0168	JN1
Hexachlorocyclopentadiene	< 3.29	3.29		ug/L		06/10/15 23:11	B5F0168	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		06/10/15 23:11	B5F0168	JN1
Surrogate: 2-Fluorophenol				*Recovery: 15%*	*Limits: 4-108*	*06/10/15 23:11*	*B5F0168*	*JN1*
Surrogate: Phenol-d5				*Recovery: 10%*	*Limits: 1-101*	*06/10/15 23:11*	*B5F0168*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 33%*	*Limits: 23-119*	*06/10/15 23:11*	*B5F0168*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 35%*	*Limits: 28-124*	*06/10/15 23:11*	*B5F0168*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 49%*	*Limits: 11-102*	*06/10/15 23:11*	*B5F0168*	*JN1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 66%*	*Limits: 79-162*	*06/10/15 23:11*	*B5F0168*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses

Method: 7500-Ra B

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Client Sample Results

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Client:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Project:	List G20 2Q15	**Report Date:**	06/30/2015
		Collection Date:	05/28/2015 08:10
Work Order:	15E0478	**Matrix:**	Groundwater
		Lab ID:	15E0478-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins (Underwriters Laboratory), Subcontract							
Subcontracted Analyses (Continued)							
Method: 7500-Ra B (Continued)							
Radium-226	**0.8**	0.28		pCi/L	06/10/15 11:31	341235	UL
Radium-228	**1.2**	0.9		pCi/L	06/16/15 18:29	341235	UL
Test America, Irvine, CA, Subcontract							
Subcontracted Analyses							
Method: SW 846 6010B							
Lithium	< 0.05	0.05		mg/L	06/08/15 00:00		TEST

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Dates Report

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-01	AW-3	05/28/15	Groundwater	Subcontracted Analyses		06/08/15 00:00	06/08/15 00:00	'[none]'	
				Subcontracted Analyses		06/05/15 11:47	06/20/15 12:54	341235	
				Subcontracted Analyses		06/05/15 11:47	06/10/15 10:27		
				Sulfate (SO4), Anions by Ion Chromatography		05/28/15 17:04	05/28/15 23:38	B5E1197	S5F0010
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/28/15 17:04	05/28/15 23:38		
				Fluoride, Anions by Ion Chromatography		05/28/15 17:04	05/28/15 23:38		
				Chloride, Anions by Ion Chromatography		05/28/15 17:04	05/28/15 23:38		
				Cyanide, Total		05/29/15 08:00	05/29/15 11:04	B5E1205	S5E0583
				Polychlorinated Biphenyls by GC/ECD		05/29/15 10:00	06/18/15 15:24	B5E1211	S5F0431
				Organochlorine Pesticides by GC/ECD		05/29/15 10:00	06/17/15 18:12	B5E1255	S5F0456
				Mercury, Total CCVA		06/01/15 07:30	06/01/15 12:20	B5F0019	S5F0032
				Phenol, Total		06/01/15 10:50	06/01/15 15:34	B5F0026	S5F0021
				Lead, Total ICP-MS		06/01/15 12:50	06/03/15 15:14	B5F0032	S5F0093
				Manganese, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Zinc, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Thallium, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Antimony, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Nickel, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Molybdenum, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Silver, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Copper, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Chromium, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Cobalt, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Selenium, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Cadmium, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Calcium, Total ICP-MS		06/01/15 12:50	06/04/15 13:20		S5F0124
				Beryllium, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		S5F0093
				Barium, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Boron, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Arsenic, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Iron, Total ICP-MS		06/01/15 12:50	06/03/15 15:14		
				Herbicides by HPLC		06/01/15 08:30	06/09/15 21:09	B5F0054	S5F0226
				Solids, Total Dissolved (TDS)		06/02/15 10:00	06/02/15 10:00	B5F0091	
				EPA 548.1 Endothall		06/03/15 11:00	06/09/15 13:43	B5F0120	S5F0216
				Semivolatile Organic Compounds by GC/MS		06/03/15 17:00	06/07/15 03:06	B5F0168	S5F0167
				EPA 504.1 DBCP/EDB		06/03/15 13:00	06/03/15 20:45	B5F0213	S5F0109
				Volatile Organic Compounds by GC/MS		05/29/15 10:00	05/29/15 15:50	B5F0228	S5F0115
				EPA 552.1 Dalapon		06/05/15 13:00	06/07/15 00:23	B5F0301	S5F0163
				EPA 531.1 Carbamates		06/04/15 08:37	06/04/15 14:06	B5F0543	S5F0267
				pH, Tested On Site		05/28/15 08:10	05/28/15 08:10	B5F0736	
				Conductance, Field		05/28/15 08:10	05/28/15 08:10		

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-01	AW-3	05/28/15	Groundwater	Groundwater Parameters		05/28/15 08:10	05/28/15 08:10	B5F0736	
				Temperature in F, Field		05/28/15 08:10	05/28/15 08:10		
15E0478-02	AP-1	05/28/15		Subcontracted Analyses		06/08/15 00:00	06/08/15 00:00	'[none]'	
				Subcontracted Analyses		06/05/15 11:47	06/20/15 12:54	341235	
				Subcontracted Analyses		06/05/15 11:47	06/10/15 10:27		
				Fluoride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 00:21	B5E1197	S5F0010
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/28/15 17:04	05/29/15 00:21		
				Chloride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 00:21		
				Sulfate (SO4), Anions by Ion Chromatography		05/28/15 17:04	05/30/15 03:58		
				Cyanide, Total		05/29/15 08:00	05/29/15 11:04	B5E1205	S5E0583
				Polychlorinated Biphenyls by GC/ECD		05/29/15 10:00	06/18/15 15:53	B5E1211	S5F0431
				Organochlorine Pesticides by GC/ECD		05/29/15 10:00	06/17/15 18:58	B5E1255	S5F0456
				Mercury, Total CCVA		06/01/15 07:30	06/01/15 12:21	B5F0019	S5F0032
				Phenol, Total		06/01/15 10:50	06/01/15 15:34	B5F0026	S5F0021
				Nickel, Total ICP-MS		06/01/15 12:50	06/03/15 15:16	B5F0032	S5F0093
				Zinc, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Thallium, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Selenium, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Lead, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Molybdenum, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Manganese, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Boron, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Antimony, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Arsenic, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Iron, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Barium, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Beryllium, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Calcium, Total ICP-MS		06/01/15 12:50	06/04/15 13:22		S5F0124
				Cadmium, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		S5F0093
				Cobalt, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Chromium, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Copper, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Silver, Total ICP-MS		06/01/15 12:50	06/03/15 15:16		
				Herbicides by HPLC		06/01/15 08:30	06/09/15 21:51	B5F0054	S5F0226
				Solids, Total Dissolved (TDS)		06/02/15 10:00	06/02/15 10:00	B5F0091	
				EPA 548.1 Endothall		06/03/15 11:00	06/09/15 14:24	B5F0120	S5F0216
				Semivolatile Organic Compounds by GC/MS		06/03/15 17:00	06/07/15 03:50	B5F0168	S5F0167
				EPA 504.1 DBCP/EDB		06/03/15 13:00	06/04/15 08:47	B5F0213	S5F0205
				Volatile Organic Compounds by GC/MS		06/03/15 12:45	06/04/15 00:06	B5F0222	S5F0113
				EPA 552.1 Dalapon		06/05/15 13:00	06/07/15 01:41	B5F0301	S5F0163
				EPA 531.1 Carbamates		06/04/15 08:37	06/04/15 14:47	B5F0543	S5F0267

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-02	AP-1	05/28/15	Groundwater	Conductance, Field		05/28/15 08:55	05/28/15 08:55	B5F0736	
				pH, Tested On Site		05/28/15 08:55	05/28/15 08:55		
				Temperature in F, Field		05/28/15 08:55	05/28/15 08:55		
				Groundwater Parameters		05/28/15 08:55	05/28/15 08:55		
15E0478-03	AP-2	05/28/15		Subcontracted Analyses		06/08/15 00:00	06/08/15 00:00	'[none]'	
				Subcontracted Analyses		06/05/15 11:47	06/20/15 12:54	341235	
				Subcontracted Analyses		06/05/15 11:47	06/15/15 09:56		
				Sulfate (SO4), Anions by Ion Chromatography		05/28/15 17:04	05/30/15 04:40	B5E1197	S5F0010
				Chloride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 01:03		
				Fluoride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 01:03		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/28/15 17:04	05/29/15 01:03		
				Polychlorinated Biphenyls by GC/ECD		05/29/15 10:00	06/18/15 16:22	B5E1211	S5F0431
				Cyanide, Total		05/29/15 11:20	05/29/15 14:54	B5E1236	S5E0590
				Organochlorine Pesticides by GC/ECD		05/29/15 10:00	06/17/15 19:45	B5E1255	S5F0456
				Mercury, Total CCVA		06/01/15 07:30	06/01/15 12:23	B5F0019	S5F0032
				Phenol, Total		06/01/15 10:50	06/01/15 15:34	B5F0026	S5F0021
				Zinc, Total ICP-MS		06/01/15 12:50	06/03/15 15:18	B5F0032	S5F0093
				Thallium, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Selenium, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Antimony, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Lead, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Nickel, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Molybdenum, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Manganese, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Iron, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Chromium, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Silver, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Cobalt, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Cadmium, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Calcium, Total ICP-MS		06/01/15 12:50	06/04/15 13:24		S5F0124
				Barium, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		S5F0093
				Boron, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Arsenic, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Beryllium, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Copper, Total ICP-MS		06/01/15 12:50	06/03/15 15:18		
				Herbicides by HPLC		06/01/15 08:30	06/09/15 22:33	B5F0054	S5F0226
				Solids, Total Dissolved (TDS)		06/02/15 10:00	06/02/15 10:00	B5F0091	
				EPA 548.1 Endothall		06/03/15 11:00	06/09/15 15:06	B5F0120	S5F0216
				Semivolatile Organic Compounds by GC/MS		06/03/15 17:00	06/07/15 04:34	B5F0168	S5F0167
				EPA 504.1 DBCP/EDB		06/03/15 13:00	06/04/15 12:29	B5F0213	S5F0205
				Volatile Organic Compounds by GC/MS		05/29/15 10:00	05/29/15 16:21	B5F0228	S5F0115

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-03	AP-2	05/28/15	Groundwater	EPA 552.1 Dalapon		06/05/15 13:00	06/07/15 02:20	B5F0301	S5F0163
				EPA 531.1 Carbamates		06/04/15 08:37	06/04/15 15:23	B5F0543	S5F0267
				Groundwater Parameters		05/28/15 11:30	05/28/15 11:30	B5F0736	
				pH, Tested On Site		05/28/15 11:30	05/28/15 11:30		
				Temperature in F, Field		05/28/15 11:30	05/28/15 11:30		
				Conductance, Field		05/28/15 11:30	05/28/15 11:30		
15E0478-04	AP-3	05/28/15		Subcontracted Analyses		06/08/15 00:00	06/08/15 00:00	'[none]'	
				Subcontracted Analyses		06/05/15 11:47	06/10/15 10:27	341235	
				Subcontracted Analyses		06/05/15 11:47	06/20/15 12:54		
				Chloride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 01:45	B5E1197	S5F0010
				Fluoride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 01:45		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/28/15 17:04	05/29/15 01:45		
				Sulfate (SO4), Anions by Ion Chromatography		05/28/15 17:04	05/30/15 05:23		
				Polychlorinated Biphenyls by GC/ECD		05/29/15 10:00	06/18/15 16:51	B5E1211	S5F0431
				Cyanide, Total		05/29/15 11:20	05/29/15 14:54	B5E1236	S5E0590
				Organochlorine Pesticides by GC/ECD		05/29/15 10:00	06/17/15 20:31	B5E1255	S5F0456
				Mercury, Total CCVA		06/01/15 07:30	06/01/15 12:25	B5F0019	S5F0032
				Phenol, Total		06/01/15 10:50	06/01/15 15:34	B5F0026	S5F0021
				Selenium, Total ICP-MS		06/01/15 12:50	06/03/15 15:20	B5F0032	S5F0093
				Chromium, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Zinc, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Thallium, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Antimony, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Nickel, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Molybdenum, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Manganese, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Lead, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Copper, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Silver, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Cobalt, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Cadmium, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Calcium, Total ICP-MS		06/01/15 12:50	06/04/15 13:26		S5F0124
				Beryllium, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		S5F0093
				Barium, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Boron, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Arsenic, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Iron, Total ICP-MS		06/01/15 12:50	06/03/15 15:20		
				Herbicides by HPLC		06/01/15 08:30	06/09/15 23:15	B5F0054	S5F0226
				Solids, Total Dissolved (TDS)		06/02/15 10:00	06/02/15 10:00	B5F0091	
				EPA 548.1 Endothall		06/03/15 11:00	06/09/15 15:47	B5F0120	S5F0216
				Semivolatile Organic Compounds by GC/MS		06/03/15 17:00	06/07/15 05:18	B5F0168	S5F0167
				EPA 504.1 DBCP/EDB		06/03/15 13:00	06/03/15 21:16	B5F0213	S5F0109

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-04	AP-3	05/28/15	Groundwater	Volatile Organic Compounds by GC/MS		06/03/15 12:45	06/04/15 00:39	B5F0222	S5F0113
				EPA 552.1 Dalapon		06/05/15 13:00	06/07/15 07:30	B5F0301	S5F0163
				pH, Tested On Site		05/28/15 10:15	05/28/15 10:15	B5F0736	
				Temperature in F, Field		05/28/15 10:15	05/28/15 10:15		
				Conductance, Field		05/28/15 10:15	05/28/15 10:15		
				Groundwater Parameters		05/28/15 10:15	05/28/15 10:15		
				EPA 531.1 Carbamates		06/11/15 08:10	06/11/15 12:57	B5F1090	S5F0515
15E0478-05	AP-4	05/28/15		Subcontracted Analyses		06/08/15 00:00	06/08/15 00:00	'[none]'	
				Subcontracted Analyses		06/05/15 11:47	06/15/15 09:56	341235	
				Subcontracted Analyses		06/05/15 11:47	06/20/15 12:54		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/28/15 17:04	05/29/15 04:34	B5E1197	S5F0010
				Sulfate (SO4), Anions by Ion Chromatography		05/28/15 17:04	05/29/15 04:34		
				Fluoride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 04:34		
				Chloride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 04:34		
				Polychlorinated Biphenyls by GC/ECD		05/29/15 10:00	06/18/15 17:20	B5E1211	S5F0431
				Cyanide, Total		05/29/15 11:20	05/29/15 14:54	B5E1236	S5E0590
				Organochlorine Pesticides by GC/ECD		05/29/15 10:00	06/17/15 21:18	B5E1255	S5F0456
				Selenium, Total ICP-MS		06/01/15 12:50	06/03/15 15:21	B5F0032	S5F0093
				Thallium, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Antimony, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Lead, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Nickel, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Molybdenum, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Manganese, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Iron, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Boron, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Chromium, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Cobalt, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Cadmium, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Calcium, Total ICP-MS		06/01/15 12:50	06/04/15 13:27		S5F0124
				Beryllium, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		S5F0093
				Barium, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Silver, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Zinc, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Copper, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Arsenic, Total ICP-MS		06/01/15 12:50	06/03/15 15:21		
				Herbicides by HPLC		06/01/15 08:30	06/09/15 23:58	B5F0054	S5F0226
				Phenol, Total		06/02/15 09:00	06/02/15 13:37	B5F0075	S5F0053
				Solids, Total Dissolved (TDS)		06/02/15 10:00	06/02/15 10:00	B5F0091	
				EPA 548.1 Endothall		06/03/15 11:00	06/09/15 16:29	B5F0120	S5F0216
				Mercury, Total CCVA		06/03/15 08:00	06/03/15 12:51	B5F0135	S5F0092

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-05	AP-4	05/28/15	Groundwater	Semivolatile Organic Compounds by GC/MS		06/03/15 17:00	06/10/15 22:28	B5F0168	S5F0246
				EPA 504.1 DBCP/EDB		06/03/15 13:00	06/03/15 22:19	B5F0213	S5F0109
				Volatile Organic Compounds by GC/MS		06/03/15 12:45	06/04/15 01:12	B5F0222	S5F0113
				EPA 552.1 Dalapon		06/05/15 13:00	06/07/15 03:37	B5F0301	S5F0163
				pH, Tested On Site		05/28/15 09:40	05/28/15 09:40	B5F0736	
				Temperature in F, Field		05/28/15 09:40	05/28/15 09:40		
				Groundwater Parameters		05/28/15 09:40	05/28/15 09:40		
				Conductance, Field		05/28/15 09:40	05/28/15 09:40		
				EPA 531.1 Carbamates		06/11/15 08:10	06/11/15 13:33	B5F1090	S5F0515
15E0478-06	AP-5	05/28/15		Subcontracted Analyses		06/08/15 00:00	06/08/15 00:00	'[none]'	
				Subcontracted Analyses		06/05/15 11:47	06/16/15 18:29	341235	
				Subcontracted Analyses		06/05/15 11:47	06/10/15 11:31		
				Chloride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 05:17	B5E1197	S5F0010
				Sulfate (SO4), Anions by Ion Chromatography		05/28/15 17:04	05/29/15 05:17		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/28/15 17:04	05/29/15 05:17		
				Fluoride, Anions by Ion Chromatography		05/28/15 17:04	05/29/15 05:17		
				Cyanide, Total		05/29/15 11:20	05/29/15 14:54	B5E1236	S5E0590
				Copper, Total ICP-MS		06/01/15 12:50	06/03/15 15:39	B5F0032	S5F0093
				Zinc, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Thallium, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Selenium, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Antimony, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Lead, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Nickel, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Molybdenum, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Iron, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Arsenic, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Manganese, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Silver, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Chromium, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Boron, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Barium, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Beryllium, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Calcium, Total ICP-MS		06/01/15 12:50	06/04/15 13:36		S5F0124
				Cadmium, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		S5F0093
				Cobalt, Total ICP-MS		06/01/15 12:50	06/03/15 15:39		
				Herbicides by HPLC		06/01/15 08:30	06/10/15 00:40	B5F0054	S5F0226
				Phenol, Total		06/02/15 09:00	06/02/15 13:37	B5F0075	S5F0053
				Solids, Total Dissolved (TDS)		06/02/15 10:00	06/02/15 10:00	B5F0091	
				Organochlorine Pesticides by GC/ECD		06/03/15 09:00	06/17/15 22:04	B5F0112	S5F0456
				Polychlorinated Biphenyls by GC/ECD		06/02/15 14:00	06/18/15 18:04	B5F0114	S5F0431

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15E0478-06	AP-5	05/28/15	Groundwater	EPA 548.1 Endothall		06/03/15 11:00	06/09/15 17:10	B5F0120	S5F0216
				Mercury, Total CCVA		06/03/15 08:00	06/03/15 12:53	B5F0135	S5F0092
				Semivolatile Organic Compounds by GC/MS		06/03/15 17:00	06/10/15 23:11	B5F0168	S5F0246
				EPA 504.1 DBCP/EDB		06/03/15 13:00	06/03/15 22:50	B5F0213	S5F0109
				Volatile Organic Compounds by GC/MS		06/01/15 15:13	06/02/15 02:03	B5F0242	S5F0122
				EPA 531.1 Carbamates		06/03/15 08:28	06/03/15 14:24	B5F0273	S5F0161
				EPA 552.1 Dalapon		06/05/15 13:00	06/07/15 04:16	B5F0301	S5F0163
				Volatile Organic Compounds by GC/MS		06/04/15 11:42	06/04/15 18:29	B5F0420	S5F0203
				Temperature in F, Field		05/28/15 08:10	05/28/15 08:10	B5F0736	
				Groundwater Parameters		05/28/15 08:10	05/28/15 08:10		
				Conductance, Field		05/28/15 08:10	05/28/15 08:10		
				pH, Tested On Site		05/28/15 08:10	05/28/15 08:10		

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Quality Control

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0032 - SW3015										
Blank (B5F0032-BLK1)				*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:07*						
Antimony	< 0.0250	0.0250	mg/L							
Arsenic	< 0.0250	0.0250	mg/L							
Barium	< 0.0250	0.0250	mg/L							
Beryllium	< 0.00250	0.00250	mg/L							
Boron	< 0.0250	0.0250	mg/L							
Cadmium	< 0.00250	0.00250	mg/L							
Calcium	< 0.125	0.125	mg/L							
Chromium	< 0.0250	0.0250	mg/L							
Cobalt	< 0.0250	0.0250	mg/L							
Copper	< 0.0250	0.0250	mg/L							
Iron	< 0.125	0.125	mg/L							
Lead	< 0.0250	0.0250	mg/L							
Manganese	< 0.0250	0.0250	mg/L							
Molybdenum	< 0.0250	0.0250	mg/L							
Nickel	< 0.0250	0.0250	mg/L							
Selenium	< 0.0250	0.0250	mg/L							
Silver	< 0.00250	0.00250	mg/L							
Thallium	< 0.0250	0.0250	mg/L							
Zinc	< 0.0250	0.0250	mg/L							
LCS (B5F0032-BS1)				*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:09*						
Antimony	1.20	0.0250	mg/L	1.25		95.6	85-117			
Arsenic	1.15	0.0250	mg/L	1.25		91.9	84-116			
Barium	1.43	0.0250	mg/L	1.25		115	86-114			S
Beryllium	0.119	0.00250	mg/L	0.125		95.1	83-121			
Boron	0.609	0.0250	mg/L	0.625		97.4	73-130			
Cadmium	0.123	0.00250	mg/L	0.125		98.0	87-115			
Calcium	6.16	0.125	mg/L	6.25		98.5	87-118			
Chromium	1.21	0.0250	mg/L	1.25		97.0	85-116			
Cobalt	1.26	0.0250	mg/L	1.25		101	86-115			
Copper	1.25	0.0250	mg/L	1.25		99.7	85-118			
Iron	2.51	0.125	mg/L	2.50		100	87-118			
Lead	1.21	0.0250	mg/L	1.25		97.0	88-115			
Manganese	1.34	0.0250	mg/L	1.25		107	87-115			
Molybdenum	1.24	0.0250	mg/L	1.25		99.4	83-115			
Nickel	1.27	0.0250	mg/L	1.25		102	85-117			
Selenium	1.16	0.0250	mg/L	1.25		92.8	80-120			
Silver	0.117	0.00250	mg/L	0.125		93.2	85-116			
Thallium	1.18	0.0250	mg/L	1.25		94.2	82-116			
Zinc	1.08	0.0250	mg/L	1.25		86.6	83-119			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0032 - SW3015 *(Continued)*										
Serial Dilution (B5F0032-DUP1)			**Source: 15E0478-05**	*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:37*						
Antimony	0.00522	0.125	mg/L		ND				20	
Arsenic	0.00654	0.125	mg/L		0.00339			63.4	20	P
Barium	0.319	0.125	mg/L		0.301			6.08	20	
Beryllium	< 0.00145	0.0125	mg/L		ND				20	
Boron	0.139	0.125	mg/L		0.123			12.4	20	
Cadmium	0.00218	0.0125	mg/L		ND				20	
Chromium	0.00339	0.125	mg/L		0.000608			139	20	P
Cobalt	0.00278	0.125	mg/L		0.000513			138	20	P
Copper	< 0.0160	0.125	mg/L		ND				20	
Iron	2.26	0.625	mg/L		2.08			8.41	20	
Lead	0.00271	0.125	mg/L		0.000371			152	20	P
Manganese	0.0935	0.125	mg/L		0.0878			6.25	20	
Molybdenum	< 0.00375	0.125	mg/L		ND				20	
Nickel	0.00387	0.125	mg/L		0.00128			101	20	P
Selenium	< 0.00250	0.125	mg/L		ND				20	
Silver	< 0.00275	0.0125	mg/L		ND				20	
Thallium	0.00172	0.125	mg/L		ND				20	
Zinc	< 0.0152	0.125	mg/L		0.00498				20	
Serial Dilution (B5F0032-DUP2)			**Source: 15E0478-05RE1**	*Prepared: 06/01/2015 12:50 Analyzed: 06/04/2015 13:35*						
Calcium	23.3	6.25	mg/L		121			135	20	P
MRL Check (B5F0032-MRL1)				*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:11*						
Antimony	0.0310	0.0250	mg/L	0.0312		99.1	70-130			
Arsenic	0.0322	0.0250	mg/L	0.0312		103	70-130			
Barium	0.0346	0.0250	mg/L	0.0312		111	70-130			
Beryllium	0.00334	0.00250	mg/L	0.00312		107	70-130			
Boron	0.0219	0.0250	mg/L	0.0156		140	70-130			S
Cadmium	0.00329	0.00250	mg/L	0.00312		105	70-130			
Calcium	0.154	0.125	mg/L	0.125		123	70-130			
Chromium	0.0297	0.0250	mg/L	0.0312		95.2	70-130			
Cobalt	0.0262	0.0250	mg/L	0.0250		105	70-130			
Copper	0.0348	0.0250	mg/L	0.0312		111	70-130			
Iron	0.0883	0.125	mg/L	0.0625		141	70-130			S
Lead	0.0290	0.0250	mg/L	0.0312		93.0	70-130			
Manganese	0.0332	0.0250	mg/L	0.0312		106	70-130			
Molybdenum	0.0252	0.0250	mg/L	0.0250		101	70-130			
Nickel	0.0336	0.0250	mg/L	0.0312		108	70-130			
Selenium	0.0296	0.0250	mg/L	0.0312		94.7	70-130			
Silver	0.00327	0.00250	mg/L	0.00312		105	70-130			
Thallium	0.0280	0.0250	mg/L	0.0312		89.6	70-130			
Zinc	0.0322	0.0250	mg/L	0.0312		103	70-130			

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Quality Control
(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0032 - SW3015 *(Continued)*										
MRL Check (B5F0032-MRL1) (Continued)					*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:11*					
Matrix Spike (B5F0032-MS1)				**Source: 15E0478-05**	*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:23*					
Antimony	1.21	0.0250	mg/L	1.25	ND	96.8	75-125			
Arsenic	1.18	0.0250	mg/L	1.25	0.00339	94.2	75-125			
Barium	1.75	0.0250	mg/L	1.25	0.301	116	75-125			
Beryllium	0.117	0.00250	mg/L	0.125	ND	93.3	75-125			
Boron	0.708	0.0250	mg/L	0.625	0.123	93.6	75-125			
Cadmium	0.122	0.00250	mg/L	0.125	ND	97.6	75-125			
Chromium	1.21	0.0250	mg/L	1.25	0.000608	96.6	75-125			
Cobalt	1.24	0.0250	mg/L	1.25	0.000513	98.8	75-125			
Copper	1.19	0.0250	mg/L	1.25	ND	95.2	75-125			
Iron	4.55	0.125	mg/L	2.50	2.08	99.1	75-125			
Lead	1.16	0.0250	mg/L	1.25	0.000371	92.8	75-125			
Manganese	1.41	0.0250	mg/L	1.25	0.0878	106	75-125			
Molybdenum	1.27	0.0250	mg/L	1.25	ND	101	75-125			
Nickel	1.25	0.0250	mg/L	1.25	0.00128	99.8	75-125			
Selenium	1.19	0.0250	mg/L	1.25	ND	95.5	75-125			
Silver	0.116	0.00250	mg/L	0.125	ND	92.9	75-125			
Thallium	1.16	0.0250	mg/L	1.25	ND	92.5	75-125			
Zinc	1.07	0.0250	mg/L	1.25	0.00498	84.9	75-125			
Matrix Spike (B5F0032-MS2)				**Source: 15E0478-05RE1**	*Prepared: 06/01/2015 12:50 Analyzed: 06/04/2015 13:29*					
Calcium	145	1.25	mg/L	6.25	121	392	75-125			S
Matrix Spike Dup (B5F0032-MSD1)				**Source: 15E0478-05**	*Prepared: 06/01/2015 12:50 Analyzed: 06/03/2015 15:33*					
Antimony	1.25	0.0250	mg/L	1.25	ND	100	75-125	3.33	20	
Arsenic	1.19	0.0250	mg/L	1.25	0.00339	95.3	75-125	1.15	20	
Barium	1.82	0.0250	mg/L	1.25	0.301	122	75-125	3.82	20	
Beryllium	0.121	0.00250	mg/L	0.125	ND	97.2	75-125	4.15	20	
Boron	0.705	0.0250	mg/L	0.625	0.123	93.2	75-125	0.327	20	
Cadmium	0.128	0.00250	mg/L	0.125	ND	102	75-125	4.73	20	
Chromium	1.25	0.0250	mg/L	1.25	0.000608	99.9	75-125	3.33	20	
Cobalt	1.25	0.0250	mg/L	1.25	0.000513	100	75-125	1.49	20	
Copper	1.21	0.0250	mg/L	1.25	ND	97.0	75-125	1.90	20	
Iron	4.57	0.125	mg/L	2.50	2.08	99.9	75-125	0.437	20	
Lead	1.21	0.0250	mg/L	1.25	0.000371	96.9	75-125	4.25	20	
Manganese	1.45	0.0250	mg/L	1.25	0.0878	109	75-125	2.23	20	
Molybdenum	1.29	0.0250	mg/L	1.25	ND	103	75-125	1.35	20	
Nickel	1.26	0.0250	mg/L	1.25	0.00128	100	75-125	0.471	20	
Selenium	1.24	0.0250	mg/L	1.25	ND	99.2	75-125	3.78	20	
Silver	0.118	0.00250	mg/L	0.125	ND	94.1	75-125	1.26	20	
Thallium	1.22	0.0250	mg/L	1.25	ND	97.3	75-125	5.05	20	

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Metals by ICP-MS
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0032 - SW3015 *(Continued)*										
Matrix Spike Dup (B5F0032-MSD1) (Continued)		**Source: 15E0478-05**		*Prepared: 06/01/2015 12:50*			*Analyzed: 06/03/2015 15:33*			
Zinc	1.09	0.0250	mg/L	1.25	0.00498	87.1	75-125	2.47	20	
Matrix Spike Dup (B5F0032-MSD2)		**Source: 15E0478-05RE1**		*Prepared: 06/01/2015 12:50*			*Analyzed: 06/04/2015 13:31*			
Calcium	139	1.25	mg/L	6.25	121	299	75-125	4.09	20	S
Post Spike (B5F0032-PS1)		**Source: 15E0478-05**		*Prepared: 06/01/2015 12:50*			*Analyzed: 06/03/2015 15:35*			
Antimony	0.289	0.0250	mg/L	0.312	ND	92.5	75-125			
Arsenic	0.296	0.0250	mg/L	0.312	0.00339	93.6	75-125			
Barium	0.624	0.0250	mg/L	0.312	0.301	104	75-125			
Beryllium	0.143	0.00250	mg/L	0.156	ND	91.6	75-125			
Boron	0.386	0.0250	mg/L	0.312	0.123	84.2	75-125			
Cadmium	0.288	0.00250	mg/L	0.312	ND	92.1	75-125			
Chromium	0.269	0.0250	mg/L	0.312	0.000608	85.8	75-125			
Cobalt	0.311	0.0250	mg/L	0.312	0.000513	99.4	75-125			
Copper	0.292	0.0250	mg/L	0.312	ND	93.5	75-125			
Iron	3.63	0.125	mg/L	1.56	2.08	99.4	75-125			
Lead	0.296	0.0250	mg/L	0.312	0.000371	94.7	75-125			
Manganese	0.377	0.0250	mg/L	0.312	0.0878	92.4	75-125			
Molybdenum	0.287	0.0250	mg/L	0.312	ND	91.8	75-125			
Nickel	0.289	0.0250	mg/L	0.312	0.00128	92.1	75-125			
Selenium	0.280	0.0250	mg/L	0.312	ND	89.5	75-125			
Silver	0.289	0.00250	mg/L	0.312	ND	92.5	75-125			
Thallium	0.293	0.0250	mg/L	0.312	ND	93.8	75-125			
Zinc	0.281	0.0250	mg/L	0.312	0.00498	88.3	75-125			
Post Spike (B5F0032-PS2)		**Source: 15E0478-05RE1**		*Prepared: 06/01/2015 12:50*			*Analyzed: 06/04/2015 13:33*			
Calcium	129	1.25	mg/L	15.6	121	51.8	75-125			S

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0019										
Blank (B5F0019-BLK1)				*Prepared: 06/01/2015 07:30*			*Analyzed: 06/01/2015 11:24*			
Mercury	< 0.00025	0.00025	mg/L							
LCS (B5F0019-BS1)				*Prepared: 06/01/2015 07:30*			*Analyzed: 06/01/2015 11:26*			
Mercury	0.00519	0.00025	mg/L	0.00500		104	82-119			
MRL Check (B5F0019-MRL1)				*Prepared: 06/01/2015 07:30*			*Analyzed: 06/01/2015 11:28*			
Mercury	0.00025	0.00025	mg/L	0.000250		100	70-130			
Matrix Spike (B5F0019-MS1)		**Source: 15E0475-08**		*Prepared: 06/01/2015 07:30*			*Analyzed: 06/01/2015 12:08*			
Mercury	0.00331	0.00050	mg/L	0.00400	ND	82.7	75-125			
Matrix Spike Dup (B5F0019-MSD1)		**Source: 15E0475-08**		*Prepared: 06/01/2015 07:30*			*Analyzed: 06/01/2015 12:10*			
Mercury	0.00282	0.00050	mg/L	0.00400	ND	70.5	75-125	15.8	20	S
Batch: B5F0135										
Blank (B5F0135-BLK1)				*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 12:46*			
Mercury	< 0.00025	0.00025	mg/L							
LCS (B5F0135-BS1)				*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 12:48*			
Mercury	0.00520	0.00025	mg/L	0.00500		104	82-119			
Duplicate (B5F0135-DUP1)		**Source: 15F0139-01**		*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 13:55*			
Mercury	0.00476	0.00050	mg/L		0.00516			8.10	20	
MRL Check (B5F0135-MRL1)				*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 12:42*			
Mercury	0.00029	0.00025	mg/L	0.000250		116	70-130			
Matrix Spike (B5F0135-MS1)		**Source: 15E0931-01**		*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 13:22*			
Mercury	0.00391	0.00050	mg/L	0.00400	ND	97.8	75-125			
Matrix Spike (B5F0135-MS2)		**Source: 15E0486-02**		*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 12:58*			
Mercury	0.00447	0.00050	mg/L	0.00400	ND	112	75-125			
Matrix Spike Dup (B5F0135-MSD1)		**Source: 15E0931-01**		*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 13:24*			
Mercury	0.00391	0.00050	mg/L	0.00400	ND	97.7	75-125	0.0972	20	
Matrix Spike Dup (B5F0135-MSD2)		**Source: 15E0486-02**		*Prepared: 06/03/2015 08:00*			*Analyzed: 06/03/2015 13:00*			
Mercury	0.00442	0.00050	mg/L	0.00400	ND	111	75-125	1.12	20	

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5E1197										
Blank (B5E1197-BLK1)				*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 17:17*			
Chloride	< 0.200	0.200	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B5E1197-BS1)				*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 18:00*			
Chloride	0.234	0.200	mg/L	0.200		117	87-111			S
Fluoride	0.213	0.0500	mg/L	0.200		106	88-112			
Nitrogen, Nitrate	0.101	0.0500	mg/L	0.0904		112	88-111			S
Sulfate	0.612	0.500	mg/L	0.400		153	87-112			S
LCS (B5E1197-BS2)				*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 18:42*			
Chloride	11.1	10.0	mg/L	10.0		111	87-111			
Fluoride	10.2	2.50	mg/L	10.0		102	88-112			
Nitrogen, Nitrate	4.80	2.50	mg/L	4.52		106	88-111			
Sulfate	19.8	25.0	mg/L	20.0		98.8	87-112			
LCS (B5E1197-BS3)				*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 19:25*			
Chloride	5.29	0.200	mg/L	5.00		106	87-111			
Fluoride	5.21	0.0500	mg/L	5.00		104	88-112			
Nitrogen, Nitrate	2.28	0.0500	mg/L	2.26		101	88-111			
Sulfate	8.96	0.500	mg/L	10.0		89.6	87-112			
LCS (B5E1197-BS4)				*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 22:14*			
Chloride	0.256	0.200	mg/L				87-111			
Fluoride	< 0.00400	0.0500	mg/L				88-112			
Nitrogen, Nitrate	0.0280	0.0500	mg/L				88-111			
Sulfate	0.490	0.500	mg/L				87-112			
Matrix Spike (B5E1197-MS1)		**Source: 15E0862-01**		*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 20:50*			
Chloride	468	2.00	mg/L	25.0		NR	80-120			S
Fluoride	29.0	0.500	mg/L	25.0		116	80-120			S
Nitrogen, Nitrate	38.0	0.500	mg/L	25.0		152	80-120			S
Sulfate	216	5.00	mg/L	25.0		866	80-120			S
Matrix Spike Dup (B5E1197-MSD1)		**Source: 15E0862-01**		*Prepared: 05/28/2015 17:04*			*Analyzed: 05/28/2015 21:32*			
Chloride	467	2.00	mg/L	25.0		NR	80-120	0.0834	20	S
Fluoride	29.0	0.500	mg/L	25.0		116	80-120	0.103	20	S
Nitrogen, Nitrate	38.0	0.500	mg/L	25.0		152	80-120	0.0263	20	S
Sulfate	216	5.00	mg/L	25.0		865	80-120	0.0555	20	S

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5E1205 - SW9010B										
Blank (B5E1205-BLK1)				*Prepared: 05/29/2015 08:00*			*Analyzed: 05/29/2015 10:57*			
Cyanide	< 0.010	0.010	mg/L							
LCS (B5E1205-BS1)				*Prepared: 05/29/2015 08:00*			*Analyzed: 05/29/2015 10:57*			
Cyanide	0.051	0.010	mg/L	0.0500		103	83-116			
LCS (B5E1205-BS2)				*Prepared: 05/29/2015 08:00*			*Analyzed: 05/29/2015 12:12*			
Cyanide	0.012	0.010	mg/L	0.0100		119	83-116			S
Matrix Spike (B5E1205-MS1)		**Source: 15E0478-02**		*Prepared: 05/29/2015 08:00*			*Analyzed: 05/29/2015 11:26*			
Cyanide	0.181	0.010	mg/L	0.200	ND	90.4	80-120			
Matrix Spike Dup (B5E1205-MSD1)		**Source: 15E0478-02**		*Prepared: 05/29/2015 08:00*			*Analyzed: 05/29/2015 11:26*			
Cyanide	0.169	0.010	mg/L	0.200	ND	84.3	80-120	7.01	10	
Batch: B5E1236 - SW9010B										
Blank (B5E1236-BLK1)				*Prepared: 05/29/2015 11:20*			*Analyzed: 05/29/2015 13:57*			
Cyanide	< 0.010	0.010	mg/L							
LCS (B5E1236-BS1)				*Prepared: 05/29/2015 11:20*			*Analyzed: 05/29/2015 13:57*			
Cyanide	0.054	0.010	mg/L	0.0500		107	83-116			
LCS (B5E1236-BS2)				*Prepared: 05/29/2015 11:20*			*Analyzed: 05/29/2015 13:57*			
Cyanide	0.010	0.010	mg/L	0.0100		98.8	83-116			
Matrix Spike (B5E1236-MS1)		**Source: 15E0807-12**		*Prepared: 05/29/2015 11:20*			*Analyzed: 05/29/2015 15:15*			
Cyanide	0.200	0.010	mg/L	0.200	ND	100	80-120			
Matrix Spike Dup (B5E1236-MSD1)		**Source: 15E0807-12**		*Prepared: 05/29/2015 11:20*			*Analyzed: 05/29/2015 15:15*			
Cyanide	0.181	0.010	mg/L	0.200	ND	90.4	80-120	10.1	10	P
Batch: B5F0026										
Blank (B5F0026-BLK1)				*Prepared: 06/01/2015 10:50*			*Analyzed: 06/01/2015 15:34*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B5F0026-BS1)				*Prepared: 06/01/2015 10:50*			*Analyzed: 06/01/2015 15:34*			
Phenolics, Total Recoverable	0.0558	0.0100	mg/L	0.0500		112	90-110			S

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Quality Control
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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Wet Chemistry
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0026 *(Continued)*										
Matrix Spike (B5F0026-MS1)		**Source: 15D0699-14**		*Prepared: 06/01/2015 10:50*			*Analyzed: 06/01/2015 15:34*			
Phenolics, Total Recoverable	0.0520	0.0100	mg/L	0.0500	ND	104	80-120			
Matrix Spike Dup (B5F0026-MSD1)		**Source: 15D0699-14**		*Prepared: 06/01/2015 10:50*			*Analyzed: 06/01/2015 15:34*			
Phenolics, Total Recoverable	0.0540	0.0100	mg/L	0.0500	ND	108	80-120	3.90	20	
Batch: B5F0075										
Blank (B5F0075-BLK1)							*Prepared: 06/02/2015 09:00* *Analyzed: 06/02/2015 13:37*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B5F0075-BS1)							*Prepared: 06/02/2015 09:00* *Analyzed: 06/02/2015 14:16*			
Phenolics, Total Recoverable	0.0526	0.0100	mg/L	0.0500		105	90-110			
Matrix Spike (B5F0075-MS1)		**Source: 15E0486-06**		*Prepared: 06/02/2015 09:00*			*Analyzed: 06/02/2015 13:37*			
Phenolics, Total Recoverable	0.0526	0.0100	mg/L	0.0500	ND	105	80-120			
Matrix Spike Dup (B5F0075-MSD1)		**Source: 15E0486-06**		*Prepared: 06/02/2015 09:00*			*Analyzed: 06/02/2015 13:37*			
Phenolics, Total Recoverable	0.0551	0.0100	mg/L	0.0500	ND	110	80-120	4.53	20	
Batch: B5F0091										
Blank (B5F0091-BLK1)							*Prepared: 06/02/2015 10:00* *Analyzed: 06/02/2015 10:00*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B5F0091-BS1)							*Prepared: 06/02/2015 10:00* *Analyzed: 06/02/2015 10:00*			
Total Dissolved Solids (Residue, Filterable)	929	10.0	mg/L	947		98.1	85-111			
Duplicate (B5F0091-DUP1)		**Source: 15E0478-06**		*Prepared: 06/02/2015 10:00*			*Analyzed: 06/02/2015 10:00*			
Total Dissolved Solids (Residue, Filterable)	374	10.0	mg/L		388			3.67	5	

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5E1255 - SW3510										
Blank (B5E1255-BLK1)				*Prepared: 05/28/2015 16:00*			*Analyzed: 06/05/2015 11:48*			
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.120*		*ug/L*	*0.100*		*120*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.104*		*ug/L*	*0.100*		*104*	*44-124*			
LCS (B5E1255-BS1)				*Prepared: 05/28/2015 16:00*			*Analyzed: 06/05/2015 03:50*			
Endrin	0.123	0.300	ug/L	0.200		62	60-138			
Lindane (gamma-BHC)	0.116	0.300	ug/L	0.200		58	59-134			S
Heptachlor	0.111	0.300	ug/L	0.200		55	54-130			
Heptachlor epoxide	0.138	0.300	ug/L	0.200		69	61-133			
Methoxychlor	0.145	0.300	ug/L	0.200		73	54-145			
Surrogate: Decachlorobiphenyl	*0.0231*		*ug/L*	*0.100*		*23*	*30-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0457*		*ug/L*	*0.100*		*46*	*44-124*			
LCS (B5E1255-BS2)				*Prepared: 05/29/2015 10:00*			*Analyzed: 06/05/2015 05:23*			
Alachlor	0.442	0.500	ug/L	0.500		88	19-132			
Atrazine	0.476	0.500	ug/L	0.500		95	57-119			
Simazine	0.374	0.500	ug/L	0.500		75	35-124			
LCS Dup (B5E1255-BSD1)				*Prepared: 05/28/2015 16:00*			*Analyzed: 06/05/2015 04:37*			
Endrin	0.154	0.300	ug/L	0.200		77	60-138	22	20	P
Lindane (gamma-BHC)	0.126	0.300	ug/L	0.200		63	59-134	8	20	
Heptachlor	0.126	0.300	ug/L	0.200		63	54-130	13	20	
Heptachlor epoxide	0.153	0.300	ug/L	0.200		76	61-133	10	20	
Methoxychlor	0.172	0.300	ug/L	0.200		86	54-145	17	20	
Surrogate: Decachlorobiphenyl	*0.0332*		*ug/L*	*0.100*		*33*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0715*		*ug/L*	*0.100*		*71*	*44-124*			
LCS Dup (B5E1255-BSD2)				*Prepared: 05/29/2015 10:00*			*Analyzed: 06/05/2015 06:10*			
Alachlor	0.446	0.500	ug/L	0.500		89	19-132	1	20	
Atrazine	0.388	0.500	ug/L	0.500		78	57-119	20	20	
Simazine	0.328	0.500	ug/L	0.500		66	35-124	13	20	
Batch: B5F0112 - SW3510										
Blank (B5F0112-BLK1)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 03:04*			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0112 - SW3510 *(Continued)*										
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.300	0.300	ug/L							
Lindane (gamma-BHC)	< 0.300	0.300	ug/L							
Heptachlor	< 0.300	0.300	ug/L							
Heptachlor epoxide	< 0.300	0.300	ug/L							
Methoxychlor	< 0.300	0.300	ug/L							
Simazine	< 0.500	0.500	ug/L							
Toxaphene	< 1.50	1.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.0186*		*ug/L*	*0.100*		*19*	*30-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0636*		*ug/L*	*0.100*		*64*	*44-124*			
LCS (B5F0112-BS1)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 03:50*			
Endrin	0.0920	0.300	ug/L	0.200		46	60-138			S
Lindane (gamma-BHC)	0.117	0.300	ug/L	0.200		58	59-134			S
Heptachlor	0.115	0.300	ug/L	0.200		58	54-130			
Heptachlor epoxide	0.115	0.300	ug/L	0.200		58	61-133			S
Methoxychlor	0.110	0.300	ug/L	0.200		55	54-145			
Surrogate: Decachlorobiphenyl	*0.0108*		*ug/L*	*0.100*		*11*	*30-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0342*		*ug/L*	*0.100*		*34*	*44-124*			*S*
LCS (B5F0112-BS2)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 05:23*			
Alachlor	0.392	0.500	ug/L	0.500		78	19-132			
Atrazine	0.283	0.500	ug/L	0.500		57	57-119			
Simazine	0.444	0.500	ug/L	0.500		89	35-124			
Surrogate: Decachlorobiphenyl	*0.0250*		*ug/L*	*0.100*		*25*	*30-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0711*		*ug/L*	*0.100*		*71*	*44-124*			
LCS Dup (B5F0112-BSD1)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 04:37*			
Endrin	0.0988	0.300	ug/L	0.200		49	60-138	7	20	S
Lindane (gamma-BHC)	0.121	0.300	ug/L	0.200		60	59-134	3	20	
Heptachlor	0.122	0.300	ug/L	0.200		61	54-130	6	20	
Heptachlor epoxide	0.119	0.300	ug/L	0.200		60	61-133	3	20	S
Methoxychlor	0.131	0.300	ug/L	0.200		65	54-145	18	20	
Surrogate: Decachlorobiphenyl	*0.0174*		*ug/L*	*0.100*		*17*	*30-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0480*		*ug/L*	*0.100*		*48*	*44-124*			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0112 - SW3510 *(Continued)*										
LCS Dup (B5F0112-BSD2)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 06:10*			
Alachlor	0.464	0.500	ug/L	0.500		93	19-132	17	20	
Atrazine	0.375	0.500	ug/L	0.500		75	57-119	28	20	P
Simazine	0.573	0.500	ug/L	0.500		115	35-124	25	20	P
Toxaphene	< 0.316	1.50	ug/L				50-150		20	
Surrogate: Decachlorobiphenyl	*0.0246*		*ug/L*	*0.100*		*25*	*30-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0768*		*ug/L*	*0.100*		*77*	*44-124*			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5E1211 - SW3510										
Blank (B5E1211-BLK1)				*Prepared: 05/28/2015 16:00 Analyzed: 06/01/2015 16:40*						
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Total PCB	< 1.00	1.00	ug/L							
Surrogate: Decachlorobiphenyl	*0.0301*		*ug/L*	*0.100*		*30*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0527*		*ug/L*	*0.100*		*53*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0513*		*ug/L*	*0.100*		*51*	*13-133*			
LCS (B5E1211-BS1)				*Prepared: 05/28/2015 16:00 Analyzed: 06/01/2015 17:09*						
Aroclor 1016	0.666	0.500	ug/L	0.800		83	46-129			
Aroclor 1260	0.751	0.500	ug/L	0.800		94	45-134			
Surrogate: Decachlorobiphenyl	*0.00770*		*ug/L*	*0.100*		*8*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0185*		*ug/L*	*0.100*		*19*	*13-133*			
LCS Dup (B5E1211-BSD1)				*Prepared: 05/28/2015 16:00 Analyzed: 06/01/2015 17:38*						
Aroclor 1016	0.612	0.500	ug/L	0.800		77	46-129	8	20	
Aroclor 1260	0.664	0.500	ug/L	0.800		83	45-134	12	20	
Surrogate: Decachlorobiphenyl	*0.0176*		*ug/L*	*0.100*		*18*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0348*		*ug/L*	*0.100*		*35*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0332*		*ug/L*	*0.100*		*33*	*13-133*			
Batch: B5F0114 - SW3510										
Blank (B5F0114-BLK1)				*Prepared: 06/02/2015 14:00 Analyzed: 06/05/2015 05:03*						
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Total PCB	< 1.00	1.00	ug/L							
Surrogate: Decachlorobiphenyl	*0.00624*		*ug/L*	*0.100*		*6*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0204*		*ug/L*	*0.100*		*20*	*13-133*			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0114 - SW3510 *(Continued)*										
LCS (B5F0114-BS1)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 05:32*			
Aroclor 1016	0.658	0.500	ug/L	0.800		82	46-129			
Aroclor 1260	0.746	0.500	ug/L	0.800		93	45-134			
Surrogate: Decachlorobiphenyl	*0.0176*		*ug/L*	*0.100*		*18*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0485*		*ug/L*	*0.100*		*49*	*13-133*			
LCS Dup (B5F0114-BSD1)				*Prepared: 06/02/2015 14:00*			*Analyzed: 06/05/2015 06:01*			
Aroclor 1016	0.645	0.500	ug/L	0.800		81	46-129	2	20	
Aroclor 1260	0.789	0.500	ug/L	0.800		99	45-134	6	20	
Surrogate: Decachlorobiphenyl	*0.0317*		*ug/L*	*0.100*		*32*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0711*		*ug/L*	*0.100*		*71*	*13-133*			

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Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0273										
Blank (B5F0273-BLK1)				*Prepared: 06/03/2015 08:28*			*Analyzed: 06/03/2015 13:13*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B5F0273-BS1)				*Prepared: 06/03/2015 08:28*			*Analyzed: 06/03/2015 12:37*			
Aldicarb	46.0		ug/L	50.0		92	85-115			
Carbofuran	48.2		ug/L	50.0		96	85-115			
LCS Dup (B5F0273-BSD1)				*Prepared: 06/03/2015 08:28*			*Analyzed: 06/03/2015 15:38*			
Aldicarb	46.4		ug/L	50.0		93	85-115	1	20	
Carbofuran	48.3		ug/L	50.0		97	85-115	0.2	20	
Batch: B5F0543										
Blank (B5F0543-BLK1)				*Prepared: 06/04/2015 09:37*			*Analyzed: 06/04/2015 13:30*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B5F0543-BS1)				*Prepared: 06/04/2015 09:37*			*Analyzed: 06/04/2015 12:54*			
Aldicarb	47.3		ug/L	50.0		95	85-115			
Carbofuran	49.4		ug/L	50.0		99	85-115			
Batch: B5F1090										
Blank (B5F1090-BLK1)				*Prepared: 06/11/2015 07:10*			*Analyzed: 06/11/2015 08:11*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B5F1090-BS1)				*Prepared: 06/11/2015 07:10*			*Analyzed: 06/11/2015 09:23*			
Aldicarb	53.5		ug/L	50.0		107	85-115			
Carbofuran	56.1		ug/L	50.0		112	85-115			
LCS Dup (B5F1090-BSD1)				*Prepared: 06/11/2015 07:10*			*Analyzed: 06/11/2015 09:59*			
Aldicarb	52.9		ug/L	50.0		106	85-115	1	20	
Carbofuran	57.3		ug/L	50.0		115	85-115	2	20	

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0054 - SW3510										
Blank (B5F0054-BLK1)				*Prepared: 06/01/2015 08:30 Analyzed: 06/09/2015 16:56*						
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*21.5*		*ug/L*	*25.0*		*86*	*20-138*			
LCS (B5F0054-BS1)				*Prepared: 06/01/2015 08:30 Analyzed: 06/09/2015 17:39*						
2,4,5-TP (Silvex)	8.36	1.50	ug/L	10.0		84	50-115			
2,4-D	6.64	1.50	ug/L	10.0		66	35-115			
Picloram	2.30	1.50	ug/L	10.0		23	50-150			S
Surrogate: 3,5-Dichlorobenzoic Acid	*19.2*		*ug/L*	*25.0*		*77*	*20-138*			
LCS (B5F0054-BS2)				*Prepared: 06/01/2015 08:30 Analyzed: 06/09/2015 19:03*						
Dinoseb	7.77	1.50	ug/L	10.0		78	20-100			
Surrogate: 3,5-Dichlorobenzoic Acid	*29.9*		*ug/L*	*25.0*		*120*	*20-138*			
LCS Dup (B5F0054-BSD1)				*Prepared: 06/01/2015 08:30 Analyzed: 06/09/2015 18:21*						
2,4,5-TP (Silvex)	9.48	1.50	ug/L	10.0		95	50-115	13	20	
2,4-D	7.65	1.50	ug/L	10.0		76	35-115	14	20	
Picloram	2.81	1.50	ug/L	10.0		28	50-150	20	20	S
Surrogate: 3,5-Dichlorobenzoic Acid	*20.6*		*ug/L*	*25.0*		*82*	*20-138*			
LCS Dup (B5F0054-BSD2)				*Prepared: 06/01/2015 08:30 Analyzed: 06/09/2015 19:45*						
Dinoseb	8.14	1.50	ug/L	10.0		81	20-100	5	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*31.3*		*ug/L*	*25.0*		*125*	*20-138*			

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0222 - SW5030										
Blank (B5F0222-BLK1)				*Prepared: 06/03/2015 12:45 Analyzed: 06/03/2015 23:33*						
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.5*		*ug/L*	*20.0*		*112*	*81-118*			
Surrogate: Fluorobenzene	*20.1*		*ug/L*	*20.0*		*101*	*80-116*			
Surrogate: Toluene-d8	*20.7*		*ug/L*	*20.0*		*104*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.79*		*ug/L*	*10.0*		*98*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.6*		*ug/L*	*20.0*		*103*	*70-120*			
LCS (B5F0222-BS1)				*Prepared: 06/03/2015 12:45 Analyzed: 06/03/2015 21:21*						
1,1,1-Trichloroethane	70.6	2.00	ug/L	80.0		88	74-131			
1,1,2-Trichloroethane	71.6	2.00	ug/L	80.0		90	80-119			
1,1-Dichloroethene	80.8	2.00	ug/L	80.0		101	71-131			
1,2-Dichloroethane	72.7	2.00	ug/L	80.0		91	73-128			
1,2-Dichloropropane	71.8	2.00	ug/L	80.0		90	78-122			
Benzene	74.8	2.00	ug/L	80.0		93	79-120			
Carbon tetrachloride	72.0	4.00	ug/L	80.0		90	72-136			
Chlorobenzene	73.8	2.00	ug/L	80.0		92	82-118			
cis-1,2-Dichloroethene	71.1	10.0	ug/L	80.0		89	78-123			
Ethylbenzene	74.0	2.00	ug/L	80.0		92	79-121			
Methyl tert-butyl ether	79.2	2.00	ug/L	80.0		99	71-124			
Dichloromethane (Methylene chloride)	75.4	2.00	ug/L	80.0		94	74-124			
Styrene	77.9	2.00	ug/L	80.0		97	78-123			
Tetrachloroethene	96.8	4.00	ug/L	80.0		121	74-129			
Toluene	74.6	2.00	ug/L	80.0		93	80-121			

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0222 - SW5030 *(Continued)*										
LCS (B5F0222-BS1) (Continued)				*Prepared: 06/03/2015 12:45 Analyzed: 06/03/2015 21:21*						
trans-1,2-Dichloroethene	74.2	10.0	ug/L	80.0		93	75-124			
Trichloroethene	69.8	2.00	ug/L	80.0		87	79-123			
Vinyl chloride	82.6	2.00	ug/L	80.0		103	58-137			
Xylenes, Total	220	8.00	ug/L	240		92	79-121			
Surrogate: Dibromofluoromethane	*19.6*		*ug/L*	*20.0*		*98*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.2*		*ug/L*	*20.0*		*101*	*81-118*			
Surrogate: Fluorobenzene	*20.7*		*ug/L*	*20.0*		*103*	*80-116*			
Surrogate: Toluene-d8	*20.8*		*ug/L*	*20.0*		*104*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.88*		*ug/L*	*10.0*		*99*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.3*		*ug/L*	*20.0*		*101*	*70-120*			
LCS Dup (B5F0222-BSD1)				*Prepared: 06/03/2015 12:45 Analyzed: 06/03/2015 21:54*						
1,1,1-Trichloroethane	74.8	2.00	ug/L	80.0		93	74-131	6	20	
1,1,2-Trichloroethane	72.6	2.00	ug/L	80.0		91	80-119	1	20	
1,1-Dichloroethene	88.1	2.00	ug/L	80.0		110	71-131	9	20	
1,2-Dichloroethane	76.4	2.00	ug/L	80.0		95	73-128	5	20	
1,2-Dichloropropane	77.2	2.00	ug/L	80.0		96	78-122	7	20	
Benzene	78.9	2.00	ug/L	80.0		99	79-120	5	20	
Carbon tetrachloride	76.3	4.00	ug/L	80.0		95	72-136	6	20	
Chlorobenzene	77.2	2.00	ug/L	80.0		97	82-118	5	20	
cis-1,2-Dichloroethene	76.2	10.0	ug/L	80.0		95	78-123	7	20	
Ethylbenzene	76.5	2.00	ug/L	80.0		96	79-121	3	20	
Methyl tert-butyl ether	81.5	2.00	ug/L	80.0		102	71-124	3	20	
Dichloromethane (Methylene chloride)	79.0	2.00	ug/L	80.0		99	74-124	5	20	
Styrene	78.4	2.00	ug/L	80.0		98	78-123	0.6	20	
Tetrachloroethene	87.3	4.00	ug/L	80.0		109	74-129	10	20	
Toluene	79.1	2.00	ug/L	80.0		99	80-121	6	20	
trans-1,2-Dichloroethene	78.3	10.0	ug/L	80.0		98	75-124	5	20	
Trichloroethene	74.5	2.00	ug/L	80.0		93	79-123	7	20	
Vinyl chloride	81.2	2.00	ug/L	80.0		102	58-137	2	20	
Xylenes, Total	230	8.00	ug/L	240		96	79-121	5	20	
Surrogate: Dibromofluoromethane	*19.7*		*ug/L*	*20.0*		*99*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.7*		*ug/L*	*20.0*		*99*	*81-118*			
Surrogate: Fluorobenzene	*20.3*		*ug/L*	*20.0*		*102*	*80-116*			
Surrogate: Toluene-d8	*20.7*		*ug/L*	*20.0*		*104*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.73*		*ug/L*	*10.0*		*97*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.8*		*ug/L*	*20.0*		*99*	*70-120*			
Batch: B5F0228 - SW5030										
Blank (B5F0228-BLK1)				*Prepared: 05/29/2015 09:00 Analyzed: 05/29/2015 13:20*						
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0228 - SW5030 *(Continued)*										
Blank (B5F0228-BLK1) (Continued)				*Prepared: 05/29/2015 09:00 Analyzed: 05/29/2015 13:20*						
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 6.00	6.00	ug/L							
Surrogate: Dibromofluoromethane	*21.3*		*ug/L*	*20.0*		*107*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*23.2*		*ug/L*	*20.0*		*116*	*81-118*			
Surrogate: Fluorobenzene	*20.2*		*ug/L*	*20.0*		*101*	*80-116*			
Surrogate: Toluene-d8	*19.0*		*ug/L*	*20.0*		*95*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.7*		*ug/L*	*10.0*		*107*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.2*		*ug/L*	*20.0*		*106*	*70-120*			
LCS (B5F0228-BS1)				*Prepared: 05/29/2015 09:00 Analyzed: 05/29/2015 10:19*						
1,1,1-Trichloroethane	88.2	2.00	ug/L	80.0		110	74-131			
1,1,2-Trichloroethane	80.6	2.00	ug/L	80.0		101	80-119			
1,1-Dichloroethene	85.9	2.00	ug/L	80.0		107	71-131			
1,2-Dichloroethane	85.7	2.00	ug/L	80.0		107	73-128			
1,2-Dichloropropane	84.6	2.00	ug/L	80.0		106	78-122			
Benzene	86.8	2.00	ug/L	80.0		108	79-120			
Carbon tetrachloride	90.5	4.00	ug/L	80.0		113	72-136			
Chlorobenzene	89.3	2.00	ug/L	80.0		112	82-118			
cis-1,2-Dichloroethene	82.8	10.0	ug/L	80.0		104	78-123			
Ethylbenzene	95.6	2.00	ug/L	80.0		119	79-121			
Methyl tert-butyl ether	91.6	2.00	ug/L	80.0		115	71-124			
Dichloromethane (Methylene chloride)	81.4	2.00	ug/L	80.0		102	74-124			
Styrene	97.8	2.00	ug/L	80.0		122	78-123			
Tetrachloroethene	90.7	4.00	ug/L	80.0		113	74-129			
Toluene	89.6	2.00	ug/L	80.0		112	80-121			
trans-1,2-Dichloroethene	86.1	10.0	ug/L	80.0		108	75-124			

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0228 - SW5030 *(Continued)*										
LCS (B5F0228-BS1) (Continued)				*Prepared: 05/29/2015 09:00*			*Analyzed: 05/29/2015 10:19*			
Trichloroethene	86.1	2.00	ug/L	80.0		108	79-123			
Vinyl chloride	84.4	2.00	ug/L	80.0		106	58-137			
Xylenes, Total	291	8.00	ug/L	240		121	79-121			
Surrogate: Dibromofluoromethane	*19.3*		*ug/L*	*20.0*		*96*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.8*		*ug/L*	*20.0*		*99*	*81-118*			
Surrogate: Fluorobenzene	*19.9*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.1*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*11.0*		*ug/L*	*10.0*		*110*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.7*		*ug/L*	*20.0*		*99*	*70-120*			
LCS Dup (B5F0228-BSD1)				*Prepared: 05/29/2015 09:00*			*Analyzed: 05/29/2015 10:50*			
1,1,1-Trichloroethane	87.7	2.00	ug/L	80.0		110	74-131	0.6	20	
1,1,2-Trichloroethane	82.1	2.00	ug/L	80.0		103	80-119	2	20	
1,1-Dichloroethene	87.9	2.00	ug/L	80.0		110	71-131	2	20	
1,2-Dichloroethane	87.9	2.00	ug/L	80.0		110	73-128	2	20	
1,2-Dichloropropane	85.8	2.00	ug/L	80.0		107	78-122	1	20	
Benzene	86.7	2.00	ug/L	80.0		108	79-120	0.05	20	
Carbon tetrachloride	87.0	4.00	ug/L	80.0		109	72-136	4	20	
Chlorobenzene	87.4	2.00	ug/L	80.0		109	82-118	2	20	
cis-1,2-Dichloroethene	93.9	10.0	ug/L	80.0		117	78-123	13	20	
Ethylbenzene	92.8	2.00	ug/L	80.0		116	79-121	3	20	
Methyl tert-butyl ether	93.2	2.00	ug/L	80.0		116	71-124	2	20	
Dichloromethane (Methylene chloride)	82.0	2.00	ug/L	80.0		103	74-124	0.8	20	
Styrene	96.2	2.00	ug/L	80.0		120	78-123	2	20	
Tetrachloroethene	85.4	4.00	ug/L	80.0		107	74-129	6	20	
Toluene	87.0	2.00	ug/L	80.0		109	80-121	3	20	
trans-1,2-Dichloroethene	84.6	10.0	ug/L	80.0		106	75-124	2	20	
Trichloroethene	85.2	2.00	ug/L	80.0		107	79-123	1	20	
Vinyl chloride	83.9	2.00	ug/L	80.0		105	58-137	0.6	20	
Xylenes, Total	282	8.00	ug/L	240		117	79-121	3	20	
Surrogate: Dibromofluoromethane	*20.1*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.0*		*ug/L*	*20.0*		*100*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*19.6*		*ug/L*	*20.0*		*98*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.2*		*ug/L*	*10.0*		*102*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.4*		*ug/L*	*20.0*		*102*	*70-120*			
Batch: B5F0242 - SW5030										
Blank (B5F0242-BLK1)				*Prepared: 06/01/2015 15:13*			*Analyzed: 06/01/2015 23:34*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0242 - SW5030 *(Continued)*										
Blank (B5F0242-BLK1) (Continued)				*Prepared: 06/01/2015 15:13 Analyzed: 06/01/2015 23:34*						
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	2.35	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*21.8*		*ug/L*	*20.0*		*109*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*24.7*		*ug/L*	*20.0*		*124*	*81-118*			*S*
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*19.0*		*ug/L*	*20.0*		*95*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.5*		*ug/L*	*10.0*		*105*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.4*		*ug/L*	*20.0*		*107*	*70-120*			
LCS (B5F0242-BS1)				*Prepared: 06/01/2015 15:13 Analyzed: 06/01/2015 22:04*						
1,1,1-Trichloroethane	90.0	2.00	ug/L	80.0		112	74-131			
1,1,2-Trichloroethane	82.9	2.00	ug/L	80.0		104	80-119			
1,1-Dichloroethene	92.5	2.00	ug/L	80.0		116	71-131			
1,2-Dichloroethane	95.4	2.00	ug/L	80.0		119	73-128			
1,2-Dichloropropane	87.4	2.00	ug/L	80.0		109	78-122			
Benzene	84.9	2.00	ug/L	80.0		106	79-120			
Carbon tetrachloride	88.9	4.00	ug/L	80.0		111	72-136			
Chlorobenzene	85.8	2.00	ug/L	80.0		107	82-118			
cis-1,2-Dichloroethene	96.8	10.0	ug/L	80.0		121	78-123			
Ethylbenzene	91.9	2.00	ug/L	80.0		115	79-121			
Methyl tert-butyl ether	91.5	2.00	ug/L	80.0		114	71-124			
Dichloromethane (Methylene chloride)	87.2	2.00	ug/L	80.0		109	74-124			B
Styrene	94.1	2.00	ug/L	80.0		118	78-123			
Tetrachloroethene	94.3	4.00	ug/L	80.0		118	74-129			
Toluene	87.5	2.00	ug/L	80.0		109	80-121			
trans-1,2-Dichloroethene	87.6	10.0	ug/L	80.0		110	75-124			
Trichloroethene	85.6	2.00	ug/L	80.0		107	79-123			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0242 - SW5030 *(Continued)*										
LCS (B5F0242-BS1) (Continued)				*Prepared: 06/01/2015 15:13*			*Analyzed: 06/01/2015 22:04*			
Vinyl chloride	90.0	2.00	ug/L	80.0		113	58-137			
Xylenes, Total	279	8.00	ug/L	240		116	79-121			
Surrogate: Dibromofluoromethane	*20.5*		*ug/L*	*20.0*		*102*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*21.3*		*ug/L*	*20.0*		*106*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.3*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.1*		*ug/L*	*10.0*		*101*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.2*		*ug/L*	*20.0*		*101*	*70-120*			
LCS Dup (B5F0242-BSD1)				*Prepared: 06/01/2015 15:13*			*Analyzed: 06/01/2015 22:34*			
1,1,1-Trichloroethane	90.5	2.00	ug/L	80.0		113	74-131	0.6	20	
1,1,2-Trichloroethane	84.1	2.00	ug/L	80.0		105	80-119	1	20	
1,1-Dichloroethene	93.4	2.00	ug/L	80.0		117	71-131	1	20	
1,2-Dichloroethane	97.9	2.00	ug/L	80.0		122	73-128	3	20	
1,2-Dichloropropane	88.9	2.00	ug/L	80.0		111	78-122	2	20	
Benzene	88.4	2.00	ug/L	80.0		111	79-120	4	20	
Carbon tetrachloride	91.6	4.00	ug/L	80.0		115	72-136	3	20	
Chlorobenzene	85.4	2.00	ug/L	80.0		107	82-118	0.5	20	
cis-1,2-Dichloroethene	88.0	10.0	ug/L	80.0		110	78-123	10	20	
Ethylbenzene	91.4	2.00	ug/L	80.0		114	79-121	0.5	20	
Methyl tert-butyl ether	94.0	2.00	ug/L	80.0		117	71-124	3	20	
Dichloromethane (Methylene chloride)	85.5	2.00	ug/L	80.0		107	74-124	2	20	B
Styrene	92.6	2.00	ug/L	80.0		116	78-123	2	20	
Tetrachloroethene	93.8	4.00	ug/L	80.0		117	74-129	0.6	20	
Toluene	87.0	2.00	ug/L	80.0		109	80-121	0.6	20	
trans-1,2-Dichloroethene	90.5	10.0	ug/L	80.0		113	75-124	3	20	
Trichloroethene	89.6	2.00	ug/L	80.0		112	79-123	5	20	
Vinyl chloride	90.5	2.00	ug/L	80.0		113	58-137	0.5	20	
Xylenes, Total	279	8.00	ug/L	240		116	79-121	0.2	20	
Surrogate: Dibromofluoromethane	*20.8*		*ug/L*	*20.0*		*104*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*21.5*		*ug/L*	*20.0*		*108*	*81-118*			
Surrogate: Fluorobenzene	*20.4*		*ug/L*	*20.0*		*102*	*80-116*			
Surrogate: Toluene-d8	*20.2*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.2*		*ug/L*	*10.0*		*102*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.8*		*ug/L*	*20.0*		*99*	*70-120*			
Batch: B5F0420 - SW5030										
Blank (B5F0420-BLK1)				*Prepared: 06/04/2015 10:42*			*Analyzed: 06/04/2015 14:42*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							

Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0420 - SW5030 *(Continued)*										
Blank (B5F0420-BLK1) (Continued)				*Prepared: 06/04/2015 10:42 Analyzed: 06/04/2015 14:42*						
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*24.1*		*ug/L*	*20.0*		*121*	*80-119*			*S*
Surrogate: 1,2-Dichloroethane-d4	*22.5*		*ug/L*	*20.0*		*112*	*81-118*			
Surrogate: Fluorobenzene	*19.4*		*ug/L*	*20.0*		*97*	*80-116*			
Surrogate: Toluene-d8	*17.9*		*ug/L*	*20.0*		*90*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*11.4*		*ug/L*	*10.0*		*114*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*23.6*		*ug/L*	*20.0*		*118*	*70-120*			
LCS (B5F0420-BS1)				*Prepared: 06/04/2015 10:42 Analyzed: 06/04/2015 11:15*						
1,1,1-Trichloroethane	84.6	2.00	ug/L	80.0		106	74-131			
1,1,2-Trichloroethane	82.4	2.00	ug/L	80.0		103	80-119			
1,1-Dichloroethene	87.0	2.00	ug/L	80.0		109	71-131			
1,2-Dichloroethane	94.0	2.00	ug/L	80.0		118	73-128			
1,2-Dichloropropane	82.2	2.00	ug/L	80.0		103	78-122			
Benzene	86.2	2.00	ug/L	80.0		108	79-120			
Carbon tetrachloride	76.2	4.00	ug/L	80.0		95	72-136			
Chlorobenzene	69.6	2.00	ug/L	80.0		87	82-118			
cis-1,2-Dichloroethene	88.4	10.0	ug/L	80.0		110	78-123			
Ethylbenzene	70.0	2.00	ug/L	80.0		87	79-121			
Methyl tert-butyl ether	103	2.00	ug/L	80.0		129	71-124			S
Dichloromethane (Methylene chloride)	91.9	2.00	ug/L	80.0		115	74-124			
Styrene	73.9	2.00	ug/L	80.0		92	78-123			
Tetrachloroethene	61.8	4.00	ug/L	80.0		77	74-129			
Toluene	74.0	2.00	ug/L	80.0		93	80-121			
trans-1,2-Dichloroethene	88.0	10.0	ug/L	80.0		110	75-124			
Trichloroethene	75.8	2.00	ug/L	80.0		95	79-123			
Vinyl chloride	78.7	2.00	ug/L	80.0		98	58-137			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0420 - SW5030 *(Continued)*										
LCS (B5F0420-BS1) (Continued)				*Prepared: 06/04/2015 10:42 Analyzed: 06/04/2015 11:15*						
Xylenes, Total	215	8.00	ug/L	240		90	79-121			
Surrogate: Dibromofluoromethane	*22.4*		*ug/L*	*20.0*		*112*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*23.0*		*ug/L*	*20.0*		*115*	*81-118*			
Surrogate: Fluorobenzene	*18.8*		*ug/L*	*20.0*		*94*	*80-116*			
Surrogate: Toluene-d8	*18.2*		*ug/L*	*20.0*		*91*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.67*		*ug/L*	*10.0*		*97*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.7*		*ug/L*	*20.0*		*98*	*70-120*			
LCS Dup (B5F0420-BSD1)				*Prepared: 06/04/2015 10:42 Analyzed: 06/04/2015 11:47*						
1,1,1-Trichloroethane	82.2	2.00	ug/L	80.0		103	74-131	3	20	
1,1,2-Trichloroethane	81.8	2.00	ug/L	80.0		102	80-119	0.6	20	
1,1-Dichloroethene	82.0	2.00	ug/L	80.0		103	71-131	6	20	
1,2-Dichloroethane	93.2	2.00	ug/L	80.0		117	73-128	0.9	20	
1,2-Dichloropropane	80.0	2.00	ug/L	80.0		100	78-122	3	20	
Benzene	83.2	2.00	ug/L	80.0		104	79-120	3	20	
Carbon tetrachloride	73.0	4.00	ug/L	80.0		91	72-136	4	20	
Chlorobenzene	67.1	2.00	ug/L	80.0		84	82-118	4	20	
cis-1,2-Dichloroethene	85.7	10.0	ug/L	80.0		107	78-123	3	20	
Ethylbenzene	67.3	2.00	ug/L	80.0		84	79-121	4	20	
Methyl tert-butyl ether	104	2.00	ug/L	80.0		131	71-124	1	20	S
Dichloromethane (Methylene chloride)	90.2	2.00	ug/L	80.0		113	74-124	2	20	
Styrene	71.8	2.00	ug/L	80.0		90	78-123	3	20	
Tetrachloroethene	59.6	4.00	ug/L	80.0		75	74-129	4	20	
Toluene	70.6	2.00	ug/L	80.0		88	80-121	5	20	
trans-1,2-Dichloroethene	85.0	10.0	ug/L	80.0		106	75-124	3	20	
Trichloroethene	73.1	2.00	ug/L	80.0		91	79-123	4	20	
Vinyl chloride	77.1	2.00	ug/L	80.0		96	58-137	2	20	
Xylenes, Total	209	8.00	ug/L	240		87	79-121	3	20	
Surrogate: Dibromofluoromethane	*22.8*		*ug/L*	*20.0*		*114*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*23.2*		*ug/L*	*20.0*		*116*	*81-118*			
Surrogate: Fluorobenzene	*18.8*		*ug/L*	*20.0*		*94*	*80-116*			
Surrogate: Toluene-d8	*17.6*		*ug/L*	*20.0*		*88*	*89-112*			*S*
Surrogate: 4-Bromofluorobenzene	*9.69*		*ug/L*	*10.0*		*97*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.4*		*ug/L*	*20.0*		*97*	*70-120*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0213										
Blank (B5F0213-BLK1)				*Prepared: 06/03/2015 07:00*			*Analyzed: 06/03/2015 14:32*			
1,2-Dibromo-3-chloropropane	< 0.100	0.100	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B5F0213-BS1)				*Prepared: 06/03/2015 07:00*			*Analyzed: 06/03/2015 15:31*			
1,2-Dibromo-3-chloropropane	0.253	0.100	ug/L	0.250		101	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.263	0.100	ug/L	0.250		105	70-130			
LCS Dup (B5F0213-BSD1)				*Prepared: 06/03/2015 07:00*			*Analyzed: 06/03/2015 16:03*			
1,2-Dibromo-3-chloropropane	0.248	0.100	ug/L	0.250		99	70-130	2	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.254	0.100	ug/L	0.250		102	70-130	4	20	
Matrix Spike (B5F0213-MS1)		**Source: 15E0478-04**		*Prepared: 06/03/2015 07:00*			*Analyzed: 06/03/2015 21:48*			
1,2-Dibromo-3-chloropropane	0.298	0.100	ug/L	0.250	ND	119	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.319	0.100	ug/L	0.250	ND	128	65-135			

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8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0301										
Blank (B5F0301-BLK1)				*Prepared: 06/05/2015 13:00*			*Analyzed: 06/06/2015 21:48*			
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*9.24*		*ug/L*	*10.0*		*92*	*70-130*			
LCS (B5F0301-BS1)				*Prepared: 06/05/2015 13:00*			*Analyzed: 06/06/2015 22:27*			
Dalapon	7.75	0.500	ug/L	10.0		78	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*9.59*		*ug/L*	*10.0*		*96*	*70-130*			
Duplicate (B5F0301-DUP1)		**Source: 15E0478-01**		*Prepared: 06/05/2015 13:00*			*Analyzed: 06/07/2015 01:02*			
Dalapon	< 0.122	0.500	ug/L		ND				200	
Surrogate: 2,4-Dichlorophenylacetic acid	*10.9*		*ug/L*	*10.0*		*109*	*70-130*			
Matrix Spike (B5F0301-MS1)		**Source: 15E0478-04**		*Prepared: 06/05/2015 13:00*			*Analyzed: 06/07/2015 02:59*			
Dalapon	7.46	0.500	ug/L	10.0	ND	75	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*10.4*		*ug/L*	*10.0*		*104*	*70-130*			
Matrix Spike Dup (B5F0301-MSD1)		**Source: 15E0478-04**		*Prepared: 06/05/2015 13:00*			*Analyzed: 06/07/2015 08:08*			
Dalapon	7.80	0.500	ug/L	10.0	ND	78	70-130	4	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*11.4*		*ug/L*	*10.0*		*114*	*70-130*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0120										
Blank (B5F0120-BLK1)				*Prepared: 06/02/2015 15:38 Analyzed: 06/07/2015 18:35*						
Endothall	< 15.5	15.5	ug/L							
Surrogate: 2,4,6-Tribromophenol	*292*		*ug/L*	*334*		*87*	*20-200*			
LCS (B5F0120-BS1)				*Prepared: 06/02/2015 15:38 Analyzed: 06/07/2015 19:16*						
Endothall	424	15.5	ug/L	500		85	50-150			
Surrogate: 2,4,6-Tribromophenol	*295*		*ug/L*	*334*		*88*	*20-200*			
Duplicate (B5F0120-DUP1)		**Source: 15E0486-03**		*Prepared: 06/02/2015 15:38 Analyzed: 06/09/2015 19:56*						
Endothall	< 5.15	15.5	ug/L		ND				200	
Surrogate: 2,4,6-Tribromophenol	*292*		*ug/L*	*334*		*88*	*20-200*			
Matrix Spike (B5F0120-MS1)		**Source: 15E0486-02**		*Prepared: 06/02/2015 15:38 Analyzed: 06/07/2015 21:21*						
Endothall	249	15.5	ug/L	500	ND	50	50-150			
Surrogate: 2,4,6-Tribromophenol	*337*		*ug/L*	*334*		*101*	*20-200*			
Batch: B5F0168 - SW3510										
Blank (B5F0168-BLK1)				*Prepared: 06/03/2015 07:30 Analyzed: 06/04/2015 10:26*						
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*17.8*		*ug/L*	*33.4*		*53*	*4-108*			
Surrogate: Phenol-d5	*11.1*		*ug/L*	*33.4*		*33*	*1-101*			
Surrogate: Nitrobenzene-d5	*28.8*		*ug/L*	*33.4*		*86*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*29.9*		*ug/L*	*33.4*		*90*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*23.9*		*ug/L*	*33.4*		*72*	*11-102*			
Surrogate: 4-Terphenyl-d14	*44.2*		*ug/L*	*33.4*		*132*	*79-162*			
LCS (B5F0168-BS1)				*Prepared: 06/03/2015 07:30 Analyzed: 06/04/2015 11:07*						
1,2,4-Trichlorobenzene	37.8	5.00	ug/L	50.0		76	36-97			
o-Dichlorobenzene (1,2-Dichlorobenzene)	35.2	5.00	ug/L	50.0		70	25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	34.3	5.00	ug/L	50.0		69	24-101			
Benzo(a)pyrene	49.3	10.0	ug/L	50.0		99	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	50.4	10.0	ug/L	50.0		101	46-122			
Hexachlorocyclopentadiene	37.6	25.0	ug/L	50.0		75	19-112			
Pentachlorophenol	46.2	100	ug/L	50.0		92	37-120			
Surrogate: 2-Fluorophenol	*13.6*		*ug/L*	*33.4*		*41*	*4-108*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q15
Work Order: 15E0478

Report Date: 06/30/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5F0168 - SW3510 *(Continued)*										
LCS (B5F0168-BS1) (Continued)				*Prepared: 06/03/2015 07:30*			*Analyzed: 06/04/2015 11:07*			
Surrogate: Phenol-d5	*8.88*		*ug/L*	*33.4*		*27*	*1-101*			
Surrogate: Nitrobenzene-d5	*29.4*		*ug/L*	*33.4*		*88*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*31.0*		*ug/L*	*33.4*		*93*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*30.7*		*ug/L*	*33.4*		*92*	*11-102*			
Surrogate: 4-Terphenyl-d14	*42.6*		*ug/L*	*33.4*		*128*	*79-162*			
LCS Dup (B5F0168-BSD1)				*Prepared: 06/03/2015 07:30*			*Analyzed: 06/04/2015 11:49*			
1,2,4-Trichlorobenzene	36.0	5.00	ug/L	50.0		72	36-97	5	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	33.8	5.00	ug/L	50.0		68	25-101	4	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	33.2	5.00	ug/L	50.0		66	24-101	3	20	
Benzo(a)pyrene	48.1	10.0	ug/L	50.0		96	49-124	2	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	49.4	10.0	ug/L	50.0		99	46-122	2	20	
Hexachlorocyclopentadiene	36.4	25.0	ug/L	50.0		73	19-112	3	20	
Pentachlorophenol	42.8	100	ug/L	50.0		86	37-120	8	20	
Surrogate: 2-Fluorophenol	*13.4*		*ug/L*	*33.4*		*40*	*4-108*			
Surrogate: Phenol-d5	*8.38*		*ug/L*	*33.4*		*25*	*1-101*			
Surrogate: Nitrobenzene-d5	*28.0*		*ug/L*	*33.4*		*84*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*29.6*		*ug/L*	*33.4*		*89*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*29.4*		*ug/L*	*33.4*		*88*	*11-102*			
Surrogate: 4-Terphenyl-d14	*42.4*		*ug/L*	*33.4*		*127*	*79-162*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	ISO,AKDEC,WDNR,DoD,ILEPA
Barium	7440-39-3	ISO,AKDEC,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	ISO,AKDEC,WDNR,DoD,ILEPA
Calcium	7440-70-2	DoD,ILEPA
Chromium	7440-47-3	ISO,AKDEC,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,WDNR,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	ISO,AKDEC,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Molybdenum	7439-98-7	WDNR,DoD,ILEPA
Nickel	7440-02-0	ISO,AKDEC,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	ISO,WDNR,DoD,ILEPA
Zinc	7440-66-6	ISO,WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
Total PCB	1336-36-3	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,ILEPA,DoD
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,ILEPA,DoD
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Benzene	71-43-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,ILEPA,DoD
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,ILEPA,DoD
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,ILEPA,DoD
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,ILEPA,DoD
Styrene	100-42-5	LELAP,WDNR,ILEPA,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Toluene	108-88-3	AKDEC,LELAP,WDNR,ILEPA,DoD
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,ILEPA,DoD
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,ILEPA,DoD
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,ILEPA,DoD
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,ILEPA,DoD
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321A in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem in Water		

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9014 by Aquachem in Water (Continued)		
Cyanide	57-12-5	DoD,ILEPA,WDNR
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR
SW9065 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2015
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003041	07/27/2015
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2015
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2015

Environmental Monitoring and Technologies, Inc.

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Qualifiers and Definitions

Item	Description
B	Analyte was present in the method blank.
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

CHAIN OF CUSTODY

JC

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Page 1 of 1

COC Number

Lab Work Order Number 15E0478

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses

SW8260B	E531.1	SM7500::SW6020A::SW7470A	SW9056A SW8081B SW8082A SW8270D SW8321A SM2550-B SM4500-H SW 846 6010B E504.1 E548.1 E552.1 SM2510B SM2540C	SW9014 by Aquachem	SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/20/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code: 5	8	3	9	4	2	Sample Comments
AW-3	05/26/15	08:10	G	W	22	3	1	3	13	1	1	-01 A-V

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	05/28/15 1240	Patrick Bak	5/28/15 1245		
Relinquished By: Patrick Bak	Date/Time: 5/28/15 1605	Received By	Date/Time	Comments: Residual Cl = NO	
Relinquished By	Date/Time	Received By: Matthew Markel 16:05	Date/Time: 5/28/15		
Cooler Numbers and Temperatures: 4°C					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preservativ

PH 7 = 7.00 @ 7:40

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
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COC Number

Lab Work Order Number 15E0478

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Brahmer	Sampler Signature: Patrick Brahmer

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; SW9056A; SW8081B SW8082A SW8270D SW8321A; SM2550-B SM4500-H SW 846 6010B; E504.1 E548.1 E552.1 SM2510B SM2540C; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/20/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code: 5	8	3	9	4	2	Sample Comments
AP-2	5-28-15	1130	G	W	22	3	1	3	13	1	1	-03A-V

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Brahmer	5/28/15 1605				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
				AP-2 Chlorine = 0 mg/L	
Relinquished By	Date/Time	Received By: Matthew Noland 16:05	Date/Time: 5/28/15		
Cooler Numbers and Temperatures: 4°					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preservativ

Cal pH 7.0 = 7.0 @ 0825

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CHAIN OF CUSTODY

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COC Number

Lab Work Order Number 15E0478

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Brahmer	Sampler Signature: Patrick Brahm

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; SW9056A; SW8081B SW8082A SW8270D SW8321A; SM2550-B SM4500-H SW 846 6010B; E504.1 E548.1 E552.1 SM2510B SM2540C; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/20/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AP-1	5-28-15	0855	G	W	22	3	1	3	13	1	1					-02 A-U
AP-4	5-28-15	0940	G	W	22	3	1	3	13	1	1					-05 A-U
AP-3	5-28-15	1015	G	W	22	3	1	3	13	1	1					-04 A-U

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Brahm	5-28-15		5-28-15 1100		
	5-28-15 1430			Comments: ID / Chlorine	
		Received By: 14:30	Date/Time: 5/28/15	AP1 0	
Cooler Numbers and Temperatures: 4°C				AP4 0	
				AP3 0	

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preservativ

Cal pH 7.0 = 7.0 @ 0825

AP-4 ⇒ Provide 1 extra unPreserved vial in steus of HCl Preserved (if

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
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Morton Grove
IL, 60053-3203

Phone: 800-246-0663
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COC Number

Lab Work Order Number 15E0478

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: F.Orantia	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; SW9056A; SW8081B SW8082A SW8270D SW8321A; SM2550-B SM4500-H SW 846 6010B; E504.1 E548.1 E552.1 SM2510B SM2540C; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/20/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code	Sample Comments
AP-5	5-28-15	0910	G	W	22	5: 3; 8: 1; 3: 3; 9: 13; 4: 1; 2: 1	-06A-U

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	5-28-15 1430				
Relinquished By	Date/Time	Received By	Date/Time	Comments: Residual Chlorine: Yes 0.5ppm	
Relinquished By	Date/Time	Received By: 14:30	Date/Time: 5/28/15		
Cooler Numbers and Temperatures: 4°C					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=No Preservativ

pH 7.7.04@0730 on 5-28-15

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Environmental Monitoring and Technologies, Inc.

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

September 17, 2015

Work Order: 15H0352

RE: List G20
3Q15

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 9/16/2015 5:59:29PM

Approved by,



Gerald L. Bagnowski Jr.
Laboratory Director

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

Electronic Filing: Received, Clerk's Office 01/29/2020

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	15H0352-01	Groundwater	08/20/15 12:55	08/20/15 14:40
AP-1	15H0352-02	Groundwater	08/20/15 08:50	08/20/15 14:40
AP-2	15H0352-03	Groundwater	08/20/15 09:35	08/20/15 14:40
AP-3	15H0352-04	Groundwater	08/20/15 10:15	08/20/15 14:40
AP-4	15H0352-05	Groundwater	08/20/15 09:40	08/20/15 14:40
AP-5	15H0352-06	Groundwater	08/20/15 08:40	08/20/15 14:40
AW-3	15H0352-01	Groundwater	08/20/15 12:55	08/20/15 14:40
AP-1	15H0352-02	Groundwater	08/20/15 08:50	08/20/15 14:40
AP-2	15H0352-03	Groundwater	08/20/15 09:35	08/20/15 14:40
AP-3	15H0352-04	Groundwater	08/20/15 10:15	08/20/15 14:40
AP-4	15H0352-05	Groundwater	08/20/15 09:40	08/20/15 14:40
AP-5	15H0352-06	Groundwater	08/20/15 08:40	08/20/15 14:40

Electronic Filing: Received, Clerk's Office 01/29/2020

Environmental Monitoring and Technologies, Inc.

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Case Narrative

Client: City, Water, Light & Power **Date:** 09/17/2015
Project: List G20
3Q15
Work Order: 15H0352

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 15H0352
The samples were received on 8/20/2015 2:40:00 PM . The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 3 degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. For the Radium 226 & 228 analysis, samples 15H0352-02, 03, and 06 were decanted to remove sediment that causese precipitation issues with the analysis prior to shipping to the subcontract lab.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AW-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 12:55
Matrix: Groundwater
Lab ID: 15H0352-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**557**			uS/cm	08/20/15 12:55	B5H0812	SDS
Method: SM2550-B							
Temperature	**66.1**			°F	08/20/15 12:55	B5H0812	SDS
Method: SM4500-H							
pH	**6.93**	0.05		pH Units	08/20/15 12:55	B5H0812	SDS
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Arsenic	**0.121**	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Barium	**0.181**	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Beryllium	< 0.00250	0.00250		mg/L	08/25/15 12:54	B5H0832	AG
Boron	**0.149**	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Cadmium	< 0.00250	0.00250		mg/L	08/25/15 12:54	B5H0832	AG
Calcium	**85.4**	1.25		mg/L	08/25/15 13:16	B5H0832	AG
Chromium	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Cobalt	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Copper	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Iron	**11.0**	0.125		mg/L	08/25/15 12:54	B5H0832	AG
Lead	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Manganese	**0.255**	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Nickel	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Selenium	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Silver	< 0.00250	0.00250		mg/L	08/25/15 12:54	B5H0832	AG
Thallium	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Zinc	< 0.0250	0.0250		mg/L	08/25/15 12:54	B5H0832	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	09/02/15 11:34	B5I0074	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**20.9**	3.00		mg/L	08/22/15 02:30	B5H0795	DZ1
Fluoride	< 0.500	0.500		mg/L	08/22/15 02:30	B5H0795	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/22/15 02:30	B5H0795	DZ1
Sulfate	**5.05**	5.00		mg/L	08/22/15 02:30	B5H0795	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**398**	10.0		mg/L	08/25/15 10:40	B5H0893	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AW-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 12:55
Matrix: Groundwater
Lab ID: 15H0352-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/31/15 12:39	B5H1113	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/31/15 11:56	B5H1110	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.330	0.330		ug/L		08/27/15 19:21	B5H0789	LP
Atrazine	< 0.330	0.330		ug/L		08/27/15 19:21	B5H0789	LP
Chlordane	< 0.330	0.330		ug/L		08/27/15 19:21	B5H0789	LP
Endrin	< 0.0330	0.0330		ug/L		08/27/15 19:21	B5H0789	LP
Lindane	< 0.0330	0.0330		ug/L		08/27/15 19:21	B5H0789	LP
Heptachlor	< 0.0330	0.0330		ug/L		08/27/15 19:21	B5H0789	LP
Heptachlor epoxide	< 0.0330	0.0330		ug/L		08/27/15 19:21	B5H0789	LP
Methoxychlor	< 0.0330	0.0330		ug/L		08/27/15 19:21	B5H0789	LP
Simazine	< 0.330	0.330		ug/L		08/27/15 19:21	B5H0789	LP
Toxaphene	< 1.32	1.32		ug/L		08/27/15 19:21	B5H0789	LP
Surrogate: Decachlorobiphenyl				*Recovery: 84%*	*Limits: 30-135*	*08/27/15 19:21*	*B5H0789*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 53%*	*Limits: 44-124*	*08/27/15 19:21*	*B5H0789*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.330	0.330		ug/L		08/21/15 19:48	B5H0791	PM1
Aroclor 1221	< 0.528	0.528		ug/L		08/21/15 19:48	B5H0791	PM1
Aroclor 1232	< 0.660	0.660		ug/L		08/21/15 19:48	B5H0791	PM1
Aroclor 1242	< 0.660	0.660		ug/L		08/21/15 19:48	B5H0791	PM1
Aroclor 1248	< 0.660	0.660		ug/L		08/21/15 19:48	B5H0791	PM1
Aroclor 1254	< 0.528	0.528		ug/L		08/21/15 19:48	B5H0791	PM1
Aroclor 1260	< 0.330	0.330		ug/L		08/21/15 19:48	B5H0791	PM1
Total PCB	< 0.660	0.660		ug/L		08/21/15 19:48	B5H0791	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 44%*	*Limits: 40-135*	*08/21/15 19:48*	*B5H0791*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 29%*	*Limits: 13-133*	*08/21/15 19:48*	*B5H0791*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/28/15 15:03	B5H1137	MNN
Carbofuran	< 2.00	2.00		ug/L		08/28/15 15:03	B5H1137	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.246	0.246		ug/L		08/27/15 17:48	B5H0846	JL
2,4-D	< 0.246	0.246		ug/L		08/27/15 17:48	B5H0846	JL
Dinoseb	< 0.246	0.246		ug/L		08/27/15 17:48	B5H0846	JL
Picloram	< 0.246	0.246		ug/L		08/27/15 17:48	B5H0846	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AW-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 12:55
Matrix: Groundwater
Lab ID: 15H0352-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 74%*	*Limits: 37-152*	*08/27/15 17:48*	*B5H0846*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Benzene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/22/15 09:23	B5H0978	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 09:23	B5H0978	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Dichloromethane	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Styrene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/22/15 09:23	B5H0978	XN
Toluene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 09:23	B5H0978	XN
Trichloroethene	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/22/15 09:23	B5H0978	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/22/15 09:23	B5H0978	XN
Surrogate: Dibromofluoromethane				*Recovery: 109%*	*Limits: 80-119*	*08/22/15 09:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 105%*	*Limits: 81-118*	*08/22/15 09:23*	*B5H0978*	*XN*
Surrogate: Fluorobenzene				*Recovery: 96%*	*Limits: 80-116*	*08/22/15 09:23*	*B5H0978*	*XN*
Surrogate: Toluene-d8				*Recovery: 91%*	*Limits: 89-112*	*08/22/15 09:23*	*B5H0978*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 108%*	*Limits: 85-114*	*08/22/15 09:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 103%*	*Limits: 70-120*	*08/22/15 09:23*	*B5H0978*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.103	0.103		ug/L		09/02/15 14:53	B5I0261	LP
Ethylene Dibromide	< 0.103	0.103		ug/L		09/02/15 14:53	B5I0261	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		08/28/15 20:43	B5H0998	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 109%*	*Limits: 70-130*	*08/28/15 20:43*	*B5H0998*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AW-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 12:55
Matrix: Groundwater
Lab ID: 15H0352-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		08/24/15 16:49	B5H0808	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 104%*	*Limits: 20-200*	*08/24/15 16:49*	*B5H0808*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.663	0.663		ug/L		08/25/15 01:39	B5H0837	BW1
o-Dichlorobenzene	< 0.663	0.663		ug/L		08/25/15 01:39	B5H0837	BW1
p-Dichlorobenzene	< 0.663	0.663		ug/L		08/25/15 01:39	B5H0837	BW1
Benzo(a)pyrene	< 1.33	1.33		ug/L		08/25/15 01:39	B5H0837	BW1
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		08/25/15 01:39	B5H0837	BW1
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		08/25/15 01:39	B5H0837	BW1
Pentachlorophenol	< 13.3	13.3		ug/L		08/25/15 01:39	B5H0837	BW1
Surrogate: 2-Fluorophenol				*Recovery: 35%*	*Limits: 4-108*	*08/25/15 01:39*	*B5H0837*	*BW1*
Surrogate: Phenol-d5				*Recovery: 22%*	*Limits: 1-101*	*08/25/15 01:39*	*B5H0837*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 78%*	*Limits: 23-119*	*08/25/15 01:39*	*B5H0837*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 80%*	*Limits: 28-124*	*08/25/15 01:39*	*B5H0837*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 82%*	*Limits: 11-102*	*08/25/15 01:39*	*B5H0837*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 95%*	*Limits: 79-162*	*08/25/15 01:39*	*B5H0837*	*BW1*
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		09/01/15 00:00		TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-1
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:50
Matrix: Groundwater
Lab ID: 15H0352-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1770**			uS/cm	08/20/15 08:50	B5H0812	CD
Method: SM2550-B							
Temperature	**60.6**			°F	08/20/15 08:50	B5H0812	CD
Method: SM4500-H							
pH	**6.92**	0.05		pH Units	08/20/15 08:50	B5H0812	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Arsenic	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Barium	**0.646**	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Beryllium	< 0.00250	0.00250		mg/L	08/25/15 12:59	B5H0832	AG
Boron	**17.5**	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Cadmium	< 0.00250	0.00250		mg/L	08/25/15 12:59	B5H0832	AG
Calcium	**241**	1.25		mg/L	08/25/15 13:22	B5H0832	AG
Chromium	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Cobalt	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Copper	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Iron	**24.4**	0.125		mg/L	08/25/15 12:59	B5H0832	AG
Lead	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Manganese	**0.353**	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Nickel	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Selenium	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Silver	< 0.00250	0.00250		mg/L	08/25/15 12:59	B5H0832	AG
Thallium	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Zinc	< 0.0250	0.0250		mg/L	08/25/15 12:59	B5H0832	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	09/02/15 11:36	B5I0074	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**44.8**	3.00		mg/L	08/22/15 03:02	B5H0795	DZ1
Fluoride	< 0.500	0.500		mg/L	08/22/15 03:02	B5H0795	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/22/15 03:02	B5H0795	DZ1
Sulfate	**550**	50.0		mg/L	09/02/15 06:53	B5I0056	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1200**	10.0		mg/L	08/26/15 07:50	B5H0950	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-1
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:50
Matrix: Groundwater
Lab ID: 15H0352-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/31/15 12:39	B5H1113	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/31/15 11:56	B5H1110	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.330	0.330		ug/L		08/27/15 20:07	B5H0789	LP
Atrazine	< 0.330	0.330		ug/L		08/27/15 20:07	B5H0789	LP
Chlordane	< 0.330	0.330		ug/L		08/27/15 20:07	B5H0789	LP
Endrin	< 0.0330	0.0330		ug/L		08/27/15 20:07	B5H0789	LP
Lindane	< 0.0330	0.0330		ug/L		08/27/15 20:07	B5H0789	LP
Heptachlor	< 0.0330	0.0330		ug/L		08/27/15 20:07	B5H0789	LP
Heptachlor epoxide	< 0.0330	0.0330		ug/L		08/27/15 20:07	B5H0789	LP
Methoxychlor	< 0.0330	0.0330		ug/L		08/27/15 20:07	B5H0789	LP
Simazine	< 0.330	0.330		ug/L		08/27/15 20:07	B5H0789	LP
Toxaphene	< 1.32	1.32		ug/L		08/27/15 20:07	B5H0789	LP
Surrogate: Decachlorobiphenyl				*Recovery: 64%*	*Limits: 30-135*	*08/27/15 20:07*	*B5H0789*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 44-124*	*08/27/15 20:07*	*B5H0789*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.330	0.330		ug/L		08/21/15 20:17	B5H0791	PM1
Aroclor 1221	< 0.528	0.528		ug/L		08/21/15 20:17	B5H0791	PM1
Aroclor 1232	< 0.660	0.660		ug/L		08/21/15 20:17	B5H0791	PM1
Aroclor 1242	< 0.660	0.660		ug/L		08/21/15 20:17	B5H0791	PM1
Aroclor 1248	< 0.660	0.660		ug/L		08/21/15 20:17	B5H0791	PM1
Aroclor 1254	< 0.528	0.528		ug/L		08/21/15 20:17	B5H0791	PM1
Aroclor 1260	< 0.330	0.330		ug/L		08/21/15 20:17	B5H0791	PM1
Total PCB	< 0.660	0.660		ug/L		08/21/15 20:17	B5H0791	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 66%*	*Limits: 40-135*	*08/21/15 20:17*	*B5H0791*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 46%*	*Limits: 13-133*	*08/21/15 20:17*	*B5H0791*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/28/15 15:35	B5H1137	MNN
Carbofuran	< 2.00	2.00		ug/L		08/28/15 15:35	B5H1137	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 1.82	1.82		ug/L		08/31/15 15:48	B5H1027	MNN
2,4-D	< 1.82	1.82		ug/L		08/31/15 15:48	B5H1027	MNN
Dinoseb	< 1.82	1.82		ug/L		08/31/15 15:48	B5H1027	MNN
Picloram	< 1.82	1.82		ug/L		08/31/15 15:48	B5H1027	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-1
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:50
Matrix: Groundwater
Lab ID: 15H0352-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 70%*	*Limits: 37-152*	*08/31/15 15:48*	*B5H1027*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Benzene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/22/15 12:23	B5H0978	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 12:23	B5H0978	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Dichloromethane	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Styrene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/22/15 12:23	B5H0978	XN
Toluene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 12:23	B5H0978	XN
Trichloroethene	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/22/15 12:23	B5H0978	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/22/15 12:23	B5H0978	XN
Surrogate: Dibromofluoromethane				*Recovery: 112%*	*Limits: 80-119*	*08/22/15 12:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 112%*	*Limits: 81-118*	*08/22/15 12:23*	*B5H0978*	*XN*
Surrogate: Fluorobenzene				*Recovery: 96%*	*Limits: 80-116*	*08/22/15 12:23*	*B5H0978*	*XN*
Surrogate: Toluene-d8				*Recovery: 92%*	*Limits: 89-112*	*08/22/15 12:23*	*B5H0978*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 108%*	*Limits: 85-114*	*08/22/15 12:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 106%*	*Limits: 70-120*	*08/22/15 12:23*	*B5H0978*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0921	0.0921		ug/L		09/02/15 15:55	B5I0261	LP
Ethylene Dibromide	< 0.0921	0.0921		ug/L		09/02/15 15:55	B5I0261	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		08/28/15 21:21	B5H0998	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 64%*	*Limits: 70-130*	*08/28/15 21:21*	*B5H0998*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-1
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:50
Matrix: Groundwater
Lab ID: 15H0352-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		08/24/15 20:48	B5H0808	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 90%*	*Limits: 20-200*	*08/24/15 20:48*	*B5H0808*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.663	0.663		ug/L		08/25/15 12:14	B5H0837	JN1
o-Dichlorobenzene	< 0.663	0.663		ug/L		08/25/15 12:14	B5H0837	JN1
p-Dichlorobenzene	< 0.663	0.663		ug/L		08/25/15 12:14	B5H0837	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		08/25/15 12:14	B5H0837	JN1
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		08/25/15 12:14	B5H0837	JN1
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		08/25/15 12:14	B5H0837	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		08/25/15 12:14	B5H0837	JN1
Surrogate: 2-Fluorophenol				*Recovery: 14%*	*Limits: 4-108*	*08/25/15 12:14*	*B5H0837*	*JN1*
Surrogate: Phenol-d5				*Recovery: 8%*	*Limits: 1-101*	*08/25/15 12:14*	*B5H0837*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 37%*	*Limits: 23-119*	*08/25/15 12:14*	*B5H0837*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 47%*	*Limits: 28-124*	*08/25/15 12:14*	*B5H0837*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 36%*	*Limits: 11-102*	*08/25/15 12:14*	*B5H0837*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 83%*	*Limits: 79-162*	*08/25/15 12:14*	*B5H0837*	*JN1*

Test America, Irvine, CA, Subcontract

Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		09/01/15 00:00		TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-2
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:35
Matrix: Groundwater
Lab ID: 15H0352-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1890**			uS/cm	08/20/15 09:35	B5H0812	CD
Method: SM2550-B							
Temperature	**64.0**			°F	08/20/15 09:35	B5H0812	CD
Method: SM4500-H							
pH	**6.82**	0.05		pH Units	08/20/15 09:35	B5H0812	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Arsenic	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Barium	**0.268**	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Beryllium	< 0.00250	0.00250		mg/L	08/25/15 13:01	B5H0832	AG
Boron	**5.01**	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Cadmium	< 0.00250	0.00250		mg/L	08/25/15 13:01	B5H0832	AG
Calcium	**358**	1.25		mg/L	08/25/15 13:23	B5H0832	AG
Chromium	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Cobalt	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Copper	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Iron	**22.8**	0.125		mg/L	08/25/15 13:01	B5H0832	AG
Lead	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Manganese	**31.1**	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Nickel	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Selenium	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Silver	**0.00800**	0.00250		mg/L	08/25/15 13:01	B5H0832	AG
Thallium	< 0.0250	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Zinc	**0.0271**	0.0250		mg/L	08/25/15 13:01	B5H0832	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	09/02/15 11:38	B5I0074	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**28.1**	3.00		mg/L	08/22/15 03:33	B5H0795	DZ1
Fluoride	< 0.500	0.500		mg/L	08/22/15 03:33	B5H0795	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/22/15 03:33	B5H0795	DZ1
Sulfate	**711**	50.0		mg/L	09/02/15 07:21	B5I0056	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1520**	10.0		mg/L	08/26/15 07:50	B5H0950	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-2
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:35
Matrix: Groundwater
Lab ID: 15H0352-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/31/15 12:39	B5H1113	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/31/15 11:56	B5H1110	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.332	0.332		ug/L		08/27/15 20:53	B5H0789	LP
Atrazine	< 0.332	0.332		ug/L		08/27/15 20:53	B5H0789	LP
Chlordane	< 0.332	0.332		ug/L		08/27/15 20:53	B5H0789	LP
Endrin	< 0.0332	0.0332		ug/L		08/27/15 20:53	B5H0789	LP
Lindane	< 0.0332	0.0332		ug/L		08/27/15 20:53	B5H0789	LP
Heptachlor	< 0.0332	0.0332		ug/L		08/27/15 20:53	B5H0789	LP
Heptachlor epoxide	< 0.0332	0.0332		ug/L		08/27/15 20:53	B5H0789	LP
Methoxychlor	< 0.0332	0.0332		ug/L		08/27/15 20:53	B5H0789	LP
Simazine	< 0.332	0.332		ug/L		08/27/15 20:53	B5H0789	LP
Toxaphene	< 1.33	1.33		ug/L		08/27/15 20:53	B5H0789	LP
Surrogate: Decachlorobiphenyl				*Recovery: 79%*	*Limits: 30-135*	*08/27/15 20:53*	*B5H0789*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 48%*	*Limits: 44-124*	*08/27/15 20:53*	*B5H0789*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.332	0.332		ug/L		08/21/15 20:46	B5H0791	PM1
Aroclor 1221	< 0.531	0.531		ug/L		08/21/15 20:46	B5H0791	PM1
Aroclor 1232	< 0.663	0.663		ug/L		08/21/15 20:46	B5H0791	PM1
Aroclor 1242	< 0.663	0.663		ug/L		08/21/15 20:46	B5H0791	PM1
Aroclor 1248	< 0.663	0.663		ug/L		08/21/15 20:46	B5H0791	PM1
Aroclor 1254	< 0.531	0.531		ug/L		08/21/15 20:46	B5H0791	PM1
Aroclor 1260	< 0.332	0.332		ug/L		08/21/15 20:46	B5H0791	PM1
Total PCB	< 0.663	0.663		ug/L		08/21/15 20:46	B5H0791	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 66%*	*Limits: 40-135*	*08/21/15 20:46*	*B5H0791*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 39%*	*Limits: 13-133*	*08/21/15 20:46*	*B5H0791*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/28/15 16:07	B5H1137	MNN
Carbofuran	< 2.00	2.00		ug/L		08/28/15 16:07	B5H1137	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.246	0.246		ug/L		08/27/15 19:12	B5H0846	JL
2,4-D	< 0.246	0.246		ug/L		08/27/15 19:12	B5H0846	JL
Dinoseb	< 0.246	0.246		ug/L		08/27/15 19:12	B5H0846	JL
Picloram	< 0.246	0.246		ug/L		08/27/15 19:12	B5H0846	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-2
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:35
Matrix: Groundwater
Lab ID: 15H0352-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 84%*	*Limits: 37-152*	*08/27/15 19:12*	*B5H0846*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Benzene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/22/15 10:23	B5H0978	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 10:23	B5H0978	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Dichloromethane	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Styrene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/22/15 10:23	B5H0978	XN
Toluene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 10:23	B5H0978	XN
Trichloroethene	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/22/15 10:23	B5H0978	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/22/15 10:23	B5H0978	XN
Surrogate: Dibromofluoromethane				*Recovery: 108%*	*Limits: 80-119*	*08/22/15 10:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 107%*	*Limits: 81-118*	*08/22/15 10:23*	*B5H0978*	*XN*
Surrogate: Fluorobenzene				*Recovery: 97%*	*Limits: 80-116*	*08/22/15 10:23*	*B5H0978*	*XN*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*08/22/15 10:23*	*B5H0978*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 113%*	*Limits: 85-114*	*08/22/15 10:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 108%*	*Limits: 70-120*	*08/22/15 10:23*	*B5H0978*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		09/02/15 16:58	B5I0261	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		09/02/15 16:58	B5I0261	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		08/28/15 22:00	B5H0998	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 102%*	*Limits: 70-130*	*08/28/15 22:00*	*B5H0998*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-2
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:35
Matrix: Groundwater
Lab ID: 15H0352-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		08/24/15 21:28	B5H0808	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 102%*	*Limits: 20-200*	*08/24/15 21:28*	*B5H0808*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.662	0.662		ug/L		08/25/15 12:57	B5H0837	jn1
o-Dichlorobenzene	< 0.662	0.662		ug/L		08/25/15 12:57	B5H0837	jn1
p-Dichlorobenzene	< 0.662	0.662		ug/L		08/25/15 12:57	B5H0837	jn1
Benzo(a)pyrene	< 1.32	1.32		ug/L		08/25/15 12:57	B5H0837	jn1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		08/25/15 12:57	B5H0837	jn1
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		08/25/15 12:57	B5H0837	jn1
Pentachlorophenol	< 13.2	13.2		ug/L		08/25/15 12:57	B5H0837	jn1
Surrogate: 2-Fluorophenol				*Recovery: 7%*	*Limits: 4-108*	*08/25/15 12:57*	*B5H0837*	*jn1*
Surrogate: Phenol-d5				*Recovery: 5%*	*Limits: 1-101*	*08/25/15 12:57*	*B5H0837*	*jn1*
Surrogate: Nitrobenzene-d5				*Recovery: 60%*	*Limits: 23-119*	*08/25/15 12:57*	*B5H0837*	*jn1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 68%*	*Limits: 28-124*	*08/25/15 12:57*	*B5H0837*	*jn1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 51%*	*Limits: 11-102*	*08/25/15 12:57*	*B5H0837*	*jn1*
Surrogate: 4-Terphenyl-d14				*Recovery: 88%*	*Limits: 79-162*	*08/25/15 12:57*	*B5H0837*	*jn1*
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		09/01/15 00:00		TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 10:15
Matrix: Groundwater
Lab ID: 15H0352-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1260**			uS/cm	08/20/15 10:15	B5H0812	CD
Method: SM2550-B							
Temperature	**62.6**			°F	08/20/15 10:15	B5H0812	CD
Method: SM4500-H							
pH	**6.88**	0.05		pH Units	08/20/15 10:15	B5H0812	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Arsenic	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Barium	**0.0938**	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Beryllium	< 0.00250	0.00250		mg/L	08/25/15 13:03	B5H0832	AG
Boron	**17.6**	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Cadmium	< 0.00250	0.00250		mg/L	08/25/15 13:03	B5H0832	AG
Calcium	**168**	1.25		mg/L	08/25/15 13:25	B5H0832	AG
Chromium	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Cobalt	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Copper	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Iron	**11.5**	0.125		mg/L	08/25/15 13:03	B5H0832	AG
Lead	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Manganese	**8.29**	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Nickel	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Selenium	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Silver	< 0.00250	0.00250		mg/L	08/25/15 13:03	B5H0832	AG
Thallium	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Zinc	< 0.0250	0.0250		mg/L	08/25/15 13:03	B5H0832	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	09/02/15 11:40	B5I0074	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**34.8**	3.00		mg/L	08/22/15 04:04	B5H0795	DZ1
Fluoride	< 0.500	0.500		mg/L	08/22/15 04:04	B5H0795	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/22/15 04:04	B5H0795	DZ1
Sulfate	**315**	5.00		mg/L	08/22/15 04:04	B5H0795	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**860**	10.0		mg/L	08/26/15 07:50	B5H0950	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 10:15
Matrix: Groundwater
Lab ID: 15H0352-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/31/15 12:39	B5H1113	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/31/15 11:56	B5H1110	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.330	0.330		ug/L		08/27/15 21:40	B5H0789	LP
Atrazine	< 0.330	0.330		ug/L		08/27/15 21:40	B5H0789	LP
Chlordane	< 0.330	0.330		ug/L		08/27/15 21:40	B5H0789	LP
Endrin	< 0.0330	0.0330		ug/L		08/27/15 21:40	B5H0789	LP
Lindane	< 0.0330	0.0330		ug/L		08/27/15 21:40	B5H0789	LP
Heptachlor	< 0.0330	0.0330		ug/L		08/27/15 21:40	B5H0789	LP
Heptachlor epoxide	< 0.0330	0.0330		ug/L		08/27/15 21:40	B5H0789	LP
Methoxychlor	< 0.0330	0.0330		ug/L		08/27/15 21:40	B5H0789	LP
Simazine	< 0.330	0.330		ug/L		08/27/15 21:40	B5H0789	LP
Toxaphene	< 1.32	1.32		ug/L		08/27/15 21:40	B5H0789	LP
Surrogate: Decachlorobiphenyl				*Recovery: 96%*	*Limits: 30-135*	*08/27/15 21:40*	*B5H0789*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 44-124*	*08/27/15 21:40*	*B5H0789*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.330	0.330		ug/L		08/21/15 21:15	B5H0791	PM1
Aroclor 1221	< 0.527	0.527		ug/L		08/21/15 21:15	B5H0791	PM1
Aroclor 1232	< 0.659	0.659		ug/L		08/21/15 21:15	B5H0791	PM1
Aroclor 1242	< 0.659	0.659		ug/L		08/21/15 21:15	B5H0791	PM1
Aroclor 1248	< 0.659	0.659		ug/L		08/21/15 21:15	B5H0791	PM1
Aroclor 1254	< 0.527	0.527		ug/L		08/21/15 21:15	B5H0791	PM1
Aroclor 1260	< 0.330	0.330		ug/L		08/21/15 21:15	B5H0791	PM1
Total PCB	< 0.659	0.659		ug/L		08/21/15 21:15	B5H0791	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 71%*	*Limits: 40-135*	*08/21/15 21:15*	*B5H0791*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 48%*	*Limits: 13-133*	*08/21/15 21:15*	*B5H0791*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/28/15 16:39	B5H1137	MNN
Carbofuran	< 2.00	2.00		ug/L		08/28/15 16:39	B5H1137	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.248	0.248		ug/L		08/27/15 19:55	B5H0846	JL
2,4-D	< 0.248	0.248		ug/L		08/27/15 19:55	B5H0846	JL
Dinoseb	< 0.248	0.248		ug/L		08/27/15 19:55	B5H0846	JL
Picloram	< 0.248	0.248		ug/L		08/27/15 19:55	B5H0846	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 10:15
Matrix: Groundwater
Lab ID: 15H0352-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 83%*	*Limits: 37-152*	*08/27/15 19:55*	*B5H0846*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Benzene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/22/15 12:53	B5H1063	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 12:53	B5H1063	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Dichloromethane	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Styrene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/22/15 12:53	B5H1063	XN
Toluene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 12:53	B5H1063	XN
Trichloroethene	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/22/15 12:53	B5H1063	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/22/15 12:53	B5H1063	XN
Surrogate: Dibromofluoromethane				*Recovery: 116%*	*Limits: 80-119*	*08/22/15 12:53*	*B5H1063*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 118%*	*Limits: 81-118*	*08/22/15 12:53*	*B5H1063*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*08/22/15 12:53*	*B5H1063*	*XN*
Surrogate: Toluene-d8				*Recovery: 90%*	*Limits: 89-112*	*08/22/15 12:53*	*B5H1063*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 111%*	*Limits: 85-114*	*08/22/15 12:53*	*B5H1063*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 110%*	*Limits: 70-120*	*08/22/15 12:53*	*B5H1063*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		09/02/15 17:30	B5I0261	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		09/02/15 17:30	B5I0261	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		08/28/15 22:38	B5H0998	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 47%*	*Limits: 70-130*	*08/28/15 22:38*	*B5H0998*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-3
Report Date: 09/17/2015
Collection Date: 08/20/2015 10:15
Matrix: Groundwater
Lab ID: 15H0352-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		08/24/15 22:07	B5H0808	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 79%*	*Limits: 20-200*	*08/24/15 22:07*	*B5H0808*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.663	0.663		ug/L		08/25/15 13:40	B5H0837	JN1
o-Dichlorobenzene	< 0.663	0.663		ug/L		08/25/15 13:40	B5H0837	JN1
p-Dichlorobenzene	< 0.663	0.663		ug/L		08/25/15 13:40	B5H0837	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		08/25/15 13:40	B5H0837	JN1
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		08/25/15 13:40	B5H0837	JN1
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		08/25/15 13:40	B5H0837	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		08/25/15 13:40	B5H0837	JN1
Surrogate: 2-Fluorophenol				*Recovery: 7%*	*Limits: 4-108*	*08/25/15 13:40*	*B5H0837*	*JN1*
Surrogate: Phenol-d5				*Recovery: 3%*	*Limits: 1-101*	*08/25/15 13:40*	*B5H0837*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 64%*	*Limits: 23-119*	*08/25/15 13:40*	*B5H0837*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 75%*	*Limits: 28-124*	*08/25/15 13:40*	*B5H0837*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 50%*	*Limits: 11-102*	*08/25/15 13:40*	*B5H0837*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 107%*	*Limits: 79-162*	*08/25/15 13:40*	*B5H0837*	*JN1*
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		09/01/15 00:00		TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-4
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:40
Matrix: Groundwater
Lab ID: 15H0352-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**609**			uS/cm	08/20/15 09:40	B5H0812	SDS
Method: SM2550-B							
Temperature	**63.3**			°F	08/20/15 09:40	B5H0812	SDS
Method: SM4500-H							
pH	**7.01**	0.05		pH Units	08/20/15 09:40	B5H0812	SDS
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Arsenic	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Barium	**0.348**	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Beryllium	< 0.00250	0.00250		mg/L	08/25/15 11:57	B5H0839	AG
Boron	**0.0779**	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Cadmium	< 0.00250	0.00250		mg/L	08/25/15 11:57	B5H0839	AG
Calcium	**117**	1.25		mg/L	08/25/15 13:06	B5H0839	AG
Chromium	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Cobalt	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Copper	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Iron	**11.8**	0.125		mg/L	08/25/15 11:57	B5H0839	AG
Lead	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Manganese	**0.153**	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Nickel	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Selenium	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Silver	< 0.00250	0.00250		mg/L	08/25/15 11:57	B5H0839	AG
Thallium	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Zinc	< 0.0250	0.0250		mg/L	08/25/15 11:57	B5H0839	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	09/02/15 11:42	B5I0074	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**10.2**	3.00		mg/L	08/22/15 04:35	B5H0795	DZ1
Fluoride	< 0.500	0.500		mg/L	08/22/15 04:35	B5H0795	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/22/15 04:35	B5H0795	DZ1
Sulfate	< 5.00	5.00		mg/L	08/22/15 04:35	B5H0795	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**476**	10.0		mg/L	08/26/15 07:50	B5H0950	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-4
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:40
Matrix: Groundwater
Lab ID: 15H0352-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/31/15 12:39	B5H1113	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/31/15 11:56	B5H1110	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.328	0.328		ug/L		08/27/15 22:27	B5H0789	LP
Atrazine	< 0.328	0.328		ug/L		08/27/15 22:27	B5H0789	LP
Chlordane	< 0.328	0.328		ug/L		08/27/15 22:27	B5H0789	LP
Endrin	< 0.0328	0.0328		ug/L		08/27/15 22:27	B5H0789	LP
Lindane	< 0.0328	0.0328		ug/L		08/27/15 22:27	B5H0789	LP
Heptachlor	< 0.0328	0.0328		ug/L		08/27/15 22:27	B5H0789	LP
Heptachlor epoxide	< 0.0328	0.0328		ug/L		08/27/15 22:27	B5H0789	LP
Methoxychlor	< 0.0328	0.0328		ug/L		08/27/15 22:27	B5H0789	LP
Simazine	< 0.328	0.328		ug/L		08/27/15 22:27	B5H0789	LP
Toxaphene	< 1.31	1.31		ug/L		08/27/15 22:27	B5H0789	LP
Surrogate: Decachlorobiphenyl				*Recovery: 82%*	*Limits: 30-135*	*08/27/15 22:27*	*B5H0789*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 44%*	*Limits: 44-124*	*08/27/15 22:27*	*B5H0789*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.328	0.328		ug/L		08/21/15 21:44	B5H0791	PM1
Aroclor 1221	< 0.525	0.525		ug/L		08/21/15 21:44	B5H0791	PM1
Aroclor 1232	< 0.656	0.656		ug/L		08/21/15 21:44	B5H0791	PM1
Aroclor 1242	< 0.656	0.656		ug/L		08/21/15 21:44	B5H0791	PM1
Aroclor 1248	< 0.656	0.656		ug/L		08/21/15 21:44	B5H0791	PM1
Aroclor 1254	< 0.525	0.525		ug/L		08/21/15 21:44	B5H0791	PM1
Aroclor 1260	< 0.328	0.328		ug/L		08/21/15 21:44	B5H0791	PM1
Total PCB	< 0.656	0.656		ug/L		08/21/15 21:44	B5H0791	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 40-135*	*08/21/15 21:44*	*B5H0791*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 42%*	*Limits: 13-133*	*08/21/15 21:44*	*B5H0791*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/28/15 17:11	B5H1137	MNN
Carbofuran	< 2.00	2.00		ug/L		08/28/15 17:11	B5H1137	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.247	0.247		ug/L		08/27/15 20:37	B5H0846	JL
2,4-D	< 0.247	0.247		ug/L		08/27/15 20:37	B5H0846	JL
Dinoseb	< 0.247	0.247		ug/L		08/27/15 20:37	B5H0846	JL
Picloram	< 0.247	0.247		ug/L		08/27/15 20:37	B5H0846	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-4
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:40
Matrix: Groundwater
Lab ID: 15H0352-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 83%*	*Limits: 37-152*	*08/27/15 20:37*	*B5H0846*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Benzene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/22/15 11:23	B5H0978	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 11:23	B5H0978	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Dichloromethane	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Styrene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/22/15 11:23	B5H0978	XN
Toluene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 11:23	B5H0978	XN
Trichloroethene	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/22/15 11:23	B5H0978	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/22/15 11:23	B5H0978	XN
Surrogate: Dibromofluoromethane				*Recovery: 112%*	*Limits: 80-119*	*08/22/15 11:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 107%*	*Limits: 81-118*	*08/22/15 11:23*	*B5H0978*	*XN*
Surrogate: Fluorobenzene				*Recovery: 96%*	*Limits: 80-116*	*08/22/15 11:23*	*B5H0978*	*XN*
Surrogate: Toluene-d8				*Recovery: 89%*	*Limits: 89-112*	*08/22/15 11:23*	*B5H0978*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 85-114*	*08/22/15 11:23*	*B5H0978*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 107%*	*Limits: 70-120*	*08/22/15 11:23*	*B5H0978*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		09/02/15 18:01	B5I0261	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		09/02/15 18:01	B5I0261	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		08/28/15 23:17	B5H0998	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 107%*	*Limits: 70-130*	*08/28/15 23:17*	*B5H0998*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-4
Report Date: 09/17/2015
Collection Date: 08/20/2015 09:40
Matrix: Groundwater
Lab ID: 15H0352-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		08/24/15 22:47	B5H0808	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 86%*	*Limits: 20-200*	*08/24/15 22:47*	*B5H0808*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.661	0.661		ug/L		08/25/15 14:23	B5H0837	JN1
o-Dichlorobenzene	< 0.661	0.661		ug/L		08/25/15 14:23	B5H0837	JN1
p-Dichlorobenzene	< 0.661	0.661		ug/L		08/25/15 14:23	B5H0837	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		08/25/15 14:23	B5H0837	JN1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		08/25/15 14:23	B5H0837	JN1
Hexachlorocyclopentadiene	< 3.31	3.31		ug/L		08/25/15 14:23	B5H0837	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		08/25/15 14:23	B5H0837	JN1
Surrogate: 2-Fluorophenol				*Recovery: 20%*	*Limits: 4-108*	*08/25/15 14:23*	*B5H0837*	*JN1*
Surrogate: Phenol-d5				*Recovery: 14%*	*Limits: 1-101*	*08/25/15 14:23*	*B5H0837*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 55%*	*Limits: 23-119*	*08/25/15 14:23*	*B5H0837*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 68%*	*Limits: 28-124*	*08/25/15 14:23*	*B5H0837*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 59%*	*Limits: 11-102*	*08/25/15 14:23*	*B5H0837*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-162*	*08/25/15 14:23*	*B5H0837*	*JN1*
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		09/01/15 00:00		TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-5
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:40
Matrix: Groundwater
Lab ID: 15H0352-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**455**			uS/cm	08/20/15 08:40	B5H0812	SDS
Method: SM2550-B							
Temperature	**55.4**			°F	08/20/15 08:40	B5H0812	SDS
Method: SM4500-H							
pH	**6.52**	0.05		pH Units	08/20/15 08:40	B5H0812	SDS
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Arsenic	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Barium	**0.0955**	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Beryllium	< 0.00250	0.00250		mg/L	08/25/15 11:56	B5H0839	AG
Boron	**0.0298**	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Cadmium	< 0.00250	0.00250		mg/L	08/25/15 11:56	B5H0839	AG
Calcium	**92.2**	1.25		mg/L	08/25/15 13:05	B5H0839	AG
Chromium	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Cobalt	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Copper	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Iron	**17.0**	0.125		mg/L	08/25/15 11:56	B5H0839	AG
Lead	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Manganese	**0.352**	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Nickel	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Selenium	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Silver	< 0.00250	0.00250		mg/L	08/25/15 11:56	B5H0839	AG
Thallium	< 0.0250	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Zinc	**0.0569**	0.0250		mg/L	08/25/15 11:56	B5H0839	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.00050	0.00050		mg/L	09/02/15 11:47	B5I0074	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	08/22/15 06:40	B5H0795	DZ1
Fluoride	< 0.500	0.500		mg/L	08/22/15 06:40	B5H0795	DZ1
Nitrogen, Nitrate	**0.850**	0.500		mg/L	08/22/15 06:40	B5H0795	DZ1
Sulfate	**47.4**	5.00		mg/L	08/22/15 06:40	B5H0795	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**368**	10.0		mg/L	08/26/15 07:50	B5H0950	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-5
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:40
Matrix: Groundwater
Lab ID: 15H0352-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/31/15 12:39	B5H1113	ML3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/31/15 11:56	B5H1110	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.329	0.329		ug/L		08/27/15 23:13	B5H0789	LP
Atrazine	< 0.329	0.329		ug/L		08/27/15 23:13	B5H0789	LP
Chlordane	< 0.329	0.329		ug/L		08/27/15 23:13	B5H0789	LP
Endrin	< 0.0329	0.0329		ug/L		08/27/15 23:13	B5H0789	LP
Lindane	< 0.0329	0.0329		ug/L		08/27/15 23:13	B5H0789	LP
Heptachlor	< 0.0329	0.0329		ug/L		08/27/15 23:13	B5H0789	LP
Heptachlor epoxide	< 0.0329	0.0329		ug/L		08/27/15 23:13	B5H0789	LP
Methoxychlor	< 0.0329	0.0329		ug/L		08/27/15 23:13	B5H0789	LP
Simazine	< 0.329	0.329		ug/L		08/27/15 23:13	B5H0789	LP
Toxaphene	< 1.32	1.32		ug/L		08/27/15 23:13	B5H0789	LP
Surrogate: Decachlorobiphenyl				*Recovery: 100%*	*Limits: 30-135*	*08/27/15 23:13*	*B5H0789*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 75%*	*Limits: 44-124*	*08/27/15 23:13*	*B5H0789*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.329	0.329		ug/L		08/21/15 22:13	B5H0791	PM1
Aroclor 1221	< 0.526	0.526		ug/L		08/21/15 22:13	B5H0791	PM1
Aroclor 1232	< 0.658	0.658		ug/L		08/21/15 22:13	B5H0791	PM1
Aroclor 1242	< 0.658	0.658		ug/L		08/21/15 22:13	B5H0791	PM1
Aroclor 1248	< 0.658	0.658		ug/L		08/21/15 22:13	B5H0791	PM1
Aroclor 1254	< 0.526	0.526		ug/L		08/21/15 22:13	B5H0791	PM1
Aroclor 1260	< 0.329	0.329		ug/L		08/21/15 22:13	B5H0791	PM1
Total PCB	< 0.658	0.658		ug/L		08/21/15 22:13	B5H0791	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 89%*	*Limits: 40-135*	*08/21/15 22:13*	*B5H0791*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 69%*	*Limits: 13-133*	*08/21/15 22:13*	*B5H0791*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/28/15 17:43	B5H1137	MNN
Carbofuran	< 2.00	2.00		ug/L		08/28/15 17:43	B5H1137	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321A / SW3510								
2,4,5-TP (Silvex)	< 0.248	0.248		ug/L		08/27/15 21:19	B5H0846	JL
2,4-D	< 0.248	0.248		ug/L		08/27/15 21:19	B5H0846	JL
Dinoseb	< 0.248	0.248		ug/L		08/27/15 21:19	B5H0846	JL
Picloram	< 0.248	0.248		ug/L		08/27/15 21:19	B5H0846	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-5
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:40
Matrix: Groundwater
Lab ID: 15H0352-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321A / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 60%*	*Limits: 37-152*	*08/27/15 21:19*	*B5H0846*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Benzene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/22/15 11:53	B5H0978	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 11:53	B5H0978	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Dichloromethane	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Styrene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/22/15 11:53	B5H0978	XN
Toluene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		08/22/15 11:53	B5H0978	XN
Trichloroethene	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/22/15 11:53	B5H0978	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/22/15 11:53	B5H0978	XN
Surrogate: Dibromofluoromethane				*Recovery: 115%*	*Limits: 80-119*	*08/22/15 11:53*	*B5H0978*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 81-118*	*08/22/15 11:53*	*B5H0978*	*XN*
Surrogate: Fluorobenzene				*Recovery: 96%*	*Limits: 80-116*	*08/22/15 11:53*	*B5H0978*	*XN*
Surrogate: Toluene-d8				*Recovery: 90%*	*Limits: 89-112*	*08/22/15 11:53*	*B5H0978*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 112%*	*Limits: 85-114*	*08/22/15 11:53*	*B5H0978*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 111%*	*Limits: 70-120*	*08/22/15 11:53*	*B5H0978*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		09/02/15 18:32	B5I0261	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		09/02/15 18:32	B5I0261	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		08/28/15 16:51	B5H0998	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 55%*	*Limits: 70-130*	*08/28/15 16:51*	*B5H0998*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Client Sample ID: AP-5
Report Date: 09/17/2015
Collection Date: 08/20/2015 08:40
Matrix: Groundwater
Lab ID: 15H0352-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 15.5	15.5		ug/L		08/24/15 23:27	B5H0808	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 91%*	*Limits: 20-200*	*08/24/15 23:27*	*B5H0808*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.658	0.658		ug/L		08/25/15 15:07	B5H0837	JN1
o-Dichlorobenzene	< 0.658	0.658		ug/L		08/25/15 15:07	B5H0837	JN1
p-Dichlorobenzene	< 0.658	0.658		ug/L		08/25/15 15:07	B5H0837	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		08/25/15 15:07	B5H0837	JN1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		08/25/15 15:07	B5H0837	JN1
Hexachlorocyclopentadiene	< 3.29	3.29		ug/L		08/25/15 15:07	B5H0837	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		08/25/15 15:07	B5H0837	JN1
Surrogate: 2-Fluorophenol				*Recovery: 9%*	*Limits: 4-108*	*08/25/15 15:07*	*B5H0837*	*JN1*
Surrogate: Phenol-d5				*Recovery: 5%*	*Limits: 1-101*	*08/25/15 15:07*	*B5H0837*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 31%*	*Limits: 23-119*	*08/25/15 15:07*	*B5H0837*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 42%*	*Limits: 28-124*	*08/25/15 15:07*	*B5H0837*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 44%*	*Limits: 11-102*	*08/25/15 15:07*	*B5H0837*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 100%*	*Limits: 79-162*	*08/25/15 15:07*	*B5H0837*	*JN1*
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		09/01/15 00:00		TEST

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Dates Report

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15H0352-01	AW-3	08/20/15	Groundwater	Subcontracted Analyses		09/01/15 00:00	09/01/15 00:00	'[none]'	
				Organochlorine Pesticides by GC/ECD		08/21/15 09:30	08/27/15 19:21	B5H0789	S5I0147
				Polychlorinated Biphenyls by GC/ECD		08/21/15 09:30	08/21/15 19:48	B5H0791	S5H0419
				Fluoride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 02:30	B5H0795	S5H0449
				Sulfate (SO4), Anions by Ion Chromatography		08/21/15 09:18	08/22/15 02:30		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/21/15 09:18	08/22/15 02:30		
				Chloride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 02:30		
				EPA 548.1 Endothall		08/23/15 10:21	08/24/15 16:49	B5H0808	S5H0402
				pH, Tested On Site		08/20/15 12:55	08/20/15 12:55	B5H0812	
				Temperature in F, Field		08/20/15 12:55	08/20/15 12:55		
				Conductance, Field		08/20/15 12:55	08/20/15 12:55		
				Chromium, Total ICP-MS		08/24/15 10:30	08/25/15 12:54	B5H0832	S5H0432
				Manganese, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Thallium, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Selenium, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Antimony, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Lead, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Nickel, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Molybdenum, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Zinc, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Copper, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Cobalt, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Cadmium, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Calcium, Total ICP-MS		08/24/15 10:30	08/25/15 13:16		
				Beryllium, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Barium, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Boron, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Arsenic, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Silver, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Iron, Total ICP-MS		08/24/15 10:30	08/25/15 12:54		
				Semivolatile Organic Compounds by GC/MS		08/24/15 09:30	08/25/15 01:39	B5H0837	S5H0415
				Herbicides by HPLC		08/24/15 13:00	08/27/15 17:48	B5H0846	S5I0061
				Solids, Total Dissolved (TDS)		08/25/15 10:40	08/25/15 10:40	B5H0893	
				Volatile Organic Compounds by GC/MS		08/21/15 18:31	08/22/15 09:23	B5H0978	S5H0458
				EPA 552.1 Dalapon		08/27/15 10:00	08/28/15 20:43	B5H0998	S5I0176
				Phenol, Total		08/31/15 08:20	08/31/15 11:56	B5H1110	S5H0525
				Cyanide, Total		08/31/15 09:30	08/31/15 12:39	B5H1113	S5H0530
				EPA 531.1 Carbamates		08/28/15 10:23	08/28/15 15:03	B5H1137	S5H0524
				Mercury, Total CCVA		09/02/15 07:20	09/02/15 11:34	B5I0074	S5I0047
				EPA 504.1 DBCP/EDB		09/02/15 07:00	09/02/15 14:53	B5I0261	S5I0125
15H0352-02	AP-1	08/20/15		Subcontracted Analyses		09/01/15 00:00	09/01/15 00:00	'[none]'	

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15H0352-02	AP-1	08/20/15	Groundwater	Organochlorine Pesticides by GC/ECD		08/21/15 09:30	08/27/15 20:07	B5H0789	S5I0147
				Polychlorinated Biphenyls by GC/ECD		08/21/15 09:30	08/21/15 20:17	B5H0791	S5H0419
				Fluoride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 03:02	B5H0795	S5H0449
				Chloride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 03:02		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/21/15 09:18	08/22/15 03:02		
				EPA 548.1 Endothall		08/23/15 10:21	08/24/15 20:48	B5H0808	S5H0402
				pH, Tested On Site		08/20/15 08:50	08/20/15 08:50	B5H0812	
				Temperature in F, Field		08/20/15 08:50	08/20/15 08:50		
				Conductance, Field		08/20/15 08:50	08/20/15 08:50		
				Iron, Total ICP-MS		08/24/15 10:30	08/25/15 12:59	B5H0832	S5H0432
				Copper, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Zinc, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Thallium, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Selenium, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Antimony, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Lead, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Nickel, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Molybdenum, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Boron, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Silver, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Manganese, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Barium, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Beryllium, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Calcium, Total ICP-MS		08/24/15 10:30	08/25/15 13:22		
				Cadmium, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Cobalt, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Chromium, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Arsenic, Total ICP-MS		08/24/15 10:30	08/25/15 12:59		
				Semivolatile Organic Compounds by GC/MS		08/24/15 09:30	08/25/15 12:14	B5H0837	S5H0430
				Solids, Total Dissolved (TDS)		08/26/15 07:50	08/26/15 07:50	B5H0950	
				Volatile Organic Compounds by GC/MS		08/21/15 18:31	08/22/15 12:23	B5H0978	S5H0458
				EPA 552.1 Dalapon		08/27/15 10:00	08/28/15 21:21	B5H0998	S5I0176
				Herbicides by HPLC		08/27/15 20:00	08/31/15 15:48	B5H1027	S5H0519
				Phenol, Total		08/31/15 08:20	08/31/15 11:56	B5H1110	S5H0525
				Cyanide, Total		08/31/15 09:30	08/31/15 12:39	B5H1113	S5H0530
				EPA 531.1 Carbamates		08/28/15 10:23	08/28/15 15:35	B5H1137	S5H0524
				Sulfate (SO4), Anions by Ion Chromatography		09/01/15 16:02	09/02/15 06:53	B5I0056	S5I0052
				Mercury, Total CCVA		09/02/15 07:20	09/02/15 11:36	B5I0074	S5I0047
				EPA 504.1 DBCP/EDB		09/02/15 07:00	09/02/15 15:55	B5I0261	S5I0125
15H0352-03	AP-2	08/20/15		Subcontracted Analyses		09/01/15 00:00	09/01/15 00:00	'[none]'	
				Organochlorine Pesticides by GC/ECD		08/21/15 09:30	08/27/15 20:53	B5H0789	S5I0147

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15H0352-03	AP-2	08/20/15	Groundwater	Polychlorinated Biphenyls by GC/ECD		08/21/15 09:30	08/21/15 20:46	B5H0791	S5H0419
				Fluoride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 03:33	B5H0795	S5H0449
				Chloride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 03:33		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/21/15 09:18	08/22/15 03:33		
				EPA 548.1 Endothall		08/23/15 10:21	08/24/15 21:28	B5H0808	S5H0402
				pH, Tested On Site		08/20/15 09:35	08/20/15 09:35	B5H0812	
				Conductance, Field		08/20/15 09:35	08/20/15 09:35		
				Temperature in F, Field		08/20/15 09:35	08/20/15 09:35		
				Manganese, Total ICP-MS		08/24/15 10:30	08/25/15 13:01	B5H0832	S5H0432
				Molybdenum, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Nickel, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Lead, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Antimony, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Selenium, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Zinc, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Thallium, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Silver, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Copper, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Chromium, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Cobalt, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Cadmium, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Calcium, Total ICP-MS		08/24/15 10:30	08/25/15 13:23		
				Beryllium, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Barium, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Boron, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Iron, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Arsenic, Total ICP-MS		08/24/15 10:30	08/25/15 13:01		
				Semivolatile Organic Compounds by GC/MS		08/24/15 09:30	08/25/15 12:57	B5H0837	S5H0430
				Herbicides by HPLC		08/24/15 13:00	08/27/15 19:12	B5H0846	S5I0061
				Solids, Total Dissolved (TDS)		08/26/15 07:50	08/26/15 07:50	B5H0950	
				Volatile Organic Compounds by GC/MS		08/21/15 18:31	08/22/15 10:23	B5H0978	S5H0458
				EPA 552.1 Dalapon		08/27/15 10:00	08/28/15 22:00	B5H0998	S5I0176
				Phenol, Total		08/31/15 08:20	08/31/15 11:56	B5H1110	S5H0525
				Cyanide, Total		08/31/15 09:30	08/31/15 12:39	B5H1113	S5H0530
				EPA 531.1 Carbamates		08/28/15 10:23	08/28/15 16:07	B5H1137	S5H0524
				Sulfate (SO4), Anions by Ion Chromatography		09/01/15 16:02	09/02/15 07:21	B5I0056	S5I0052
				Mercury, Total CCVA		09/02/15 07:20	09/02/15 11:38	B5I0074	S5I0047
				EPA 504.1 DBCP/EDB		09/02/15 07:00	09/02/15 16:58	B5I0261	S5I0125
15H0352-04	AP-3	08/20/15		Subcontracted Analyses		09/01/15 00:00	09/01/15 00:00	'[none]'	
				Organochlorine Pesticides by GC/ECD		08/21/15 09:30	08/27/15 21:40	B5H0789	S5I0147
				Polychlorinated Biphenyls by GC/ECD		08/21/15 09:30	08/21/15 21:15	B5H0791	S5H0419

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15H0352-04	AP-3	08/20/15	Groundwater	Sulfate (SO4), Anions by Ion Chromatography		08/21/15 09:18	08/22/15 04:04	B5H0795	S5H0449
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/21/15 09:18	08/22/15 04:04		
				Chloride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 04:04		
				Fluoride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 04:04		
				EPA 548.1 Endothall		08/23/15 10:21	08/24/15 22:07	B5H0808	S5H0402
				pH, Tested On Site		08/20/15 10:15	08/20/15 10:15	B5H0812	
				Temperature in F, Field		08/20/15 10:15	08/20/15 10:15		
				Conductance, Field		08/20/15 10:15	08/20/15 10:15		
				Nickel, Total ICP-MS		08/24/15 10:30	08/25/15 13:03	B5H0832	S5H0432
				Lead, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Antimony, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Selenium, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Molybdenum, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Zinc, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Chromium, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Thallium, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Manganese, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Copper, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Cobalt, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Cadmium, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Calcium, Total ICP-MS		08/24/15 10:30	08/25/15 13:25		
				Beryllium, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Barium, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Boron, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Arsenic, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Silver, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Iron, Total ICP-MS		08/24/15 10:30	08/25/15 13:03		
				Semivolatile Organic Compounds by GC/MS		08/24/15 09:30	08/25/15 13:40	B5H0837	S5H0430
				Herbicides by HPLC		08/24/15 13:00	08/27/15 19:55	B5H0846	S5I0061
				Solids, Total Dissolved (TDS)		08/26/15 07:50	08/26/15 07:50	B5H0950	
				EPA 552.1 Dalapon		08/27/15 10:00	08/28/15 22:38	B5H0998	S5I0176
				Volatile Organic Compounds by GC/MS		08/21/15 18:07	08/22/15 12:53	B5H1063	S5H0488
				Phenol, Total		08/31/15 08:20	08/31/15 11:56	B5H1110	S5H0525
				Cyanide, Total		08/31/15 09:30	08/31/15 12:39	B5H1113	S5H0530
				EPA 531.1 Carbamates		08/28/15 10:23	08/28/15 16:39	B5H1137	S5H0524
				Mercury, Total CCVA		09/02/15 07:20	09/02/15 11:40	B5I0074	S5I0047
				EPA 504.1 DBCP/EDB		09/02/15 07:00	09/02/15 17:30	B5I0261	S5I0125
15H0352-05	AP-4	08/20/15		Subcontracted Analyses		09/01/15 00:00	09/01/15 00:00	'[none]'	
				Organochlorine Pesticides by GC/ECD		08/21/15 09:30	08/27/15 22:27	B5H0789	S5I0147
				Polychlorinated Biphenyls by GC/ECD		08/21/15 09:30	08/21/15 21:44	B5H0791	S5H0419
				Fluoride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 04:35	B5H0795	S5H0449

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15H0352-05	AP-4	08/20/15	Groundwater	Chloride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 04:35	B5H0795	S5H0449
				Nitrogen, Nitrate (NO3) as N, Anions by IC		08/21/15 09:18	08/22/15 04:35		
				Sulfate (SO4), Anions by Ion Chromatography		08/21/15 09:18	08/22/15 04:35		
				EPA 548.1 Endothall		08/23/15 10:21	08/24/15 22:47	B5H0808	S5H0402
				pH, Tested On Site		08/20/15 09:40	08/20/15 09:40	B5H0812	
				Temperature in F, Field		08/20/15 09:40	08/20/15 09:40		
				Conductance, Field		08/20/15 09:40	08/20/15 09:40		
				Semivolatile Organic Compounds by GC/MS		08/24/15 13:30	08/25/15 14:23	B5H0837	S5H0430
				Zinc, Total ICP-MS		08/24/15 12:30	08/25/15 11:57	B5H0839	S5H0432
				Thallium, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Selenium, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Antimony, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Lead, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Nickel, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Molybdenum, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Copper, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Chromium, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Cobalt, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Cadmium, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Calcium, Total ICP-MS		08/24/15 12:30	08/25/15 13:06		
				Beryllium, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Barium, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Boron, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Iron, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Arsenic, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Silver, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Manganese, Total ICP-MS		08/24/15 12:30	08/25/15 11:57		
				Herbicides by HPLC		08/24/15 13:00	08/27/15 20:37	B5H0846	S5I0061
				Solids, Total Dissolved (TDS)		08/26/15 07:50	08/26/15 07:50	B5H0950	
				Volatile Organic Compounds by GC/MS		08/21/15 18:31	08/22/15 11:23	B5H0978	S5H0458
				EPA 552.1 Dalapon		08/27/15 10:00	08/28/15 23:17	B5H0998	S5I0176
				Phenol, Total		08/31/15 08:20	08/31/15 11:56	B5H1110	S5H0525
				Cyanide, Total		08/31/15 09:30	08/31/15 12:39	B5H1113	S5H0530
				EPA 531.1 Carbamates		08/28/15 10:23	08/28/15 17:11	B5H1137	S5H0524
				Mercury, Total CCVA		09/02/15 07:20	09/02/15 11:42	B5I0074	S5I0047
				EPA 504.1 DBCP/EDB		09/02/15 07:00	09/02/15 18:01	B5I0261	S5I0125
15H0352-06	AP-5	08/20/15		Subcontracted Analyses		09/01/15 00:00	09/01/15 00:00	'[none]'	
				Organochlorine Pesticides by GC/ECD		08/21/15 09:30	08/27/15 23:13	B5H0789	S5I0147
				Polychlorinated Biphenyls by GC/ECD		08/21/15 09:30	08/21/15 22:13	B5H0791	S5H0419
				Chloride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 06:40	B5H0795	S5H0449
				Sulfate (SO4), Anions by Ion Chromatography		08/21/15 09:18	08/22/15 06:40		

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15H0352-06	AP-5	08/20/15	Groundwater	Nitrogen, Nitrate (NO3) as N, Anions by IC		08/21/15 09:18	08/22/15 06:40	B5H0795	S5H0449
				Fluoride, Anions by Ion Chromatography		08/21/15 09:18	08/22/15 06:40		
				EPA 548.1 Endothall		08/23/15 10:21	08/24/15 23:27	B5H0808	S5H0402
				pH, Tested On Site		08/20/15 08:40	08/20/15 08:40	B5H0812	
				Temperature in F, Field		08/20/15 08:40	08/20/15 08:40		
				Conductance, Field		08/20/15 08:40	08/20/15 08:40		
				Semivolatile Organic Compounds by GC/MS		08/24/15 13:30	08/25/15 15:07	B5H0837	S5H0430
				Nickel, Total ICP-MS		08/24/15 12:30	08/25/15 11:56	B5H0839	S5H0432
				Lead, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Antimony, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Selenium, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Thallium, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Silver, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Molybdenum, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Zinc, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Barium, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Boron, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Arsenic, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Manganese, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Beryllium, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Calcium, Total ICP-MS		08/24/15 12:30	08/25/15 13:05		
				Cadmium, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Cobalt, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Chromium, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Copper, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Iron, Total ICP-MS		08/24/15 12:30	08/25/15 11:56		
				Herbicides by HPLC		08/24/15 13:00	08/27/15 21:19	B5H0846	S5I0061
				Solids, Total Dissolved (TDS)		08/26/15 07:50	08/26/15 07:50	B5H0950	
				Volatile Organic Compounds by GC/MS		08/21/15 18:31	08/22/15 11:53	B5H0978	S5H0458
				EPA 552.1 Dalapon		08/27/15 10:00	08/28/15 16:51	B5H0998	S5I0176
				Phenol, Total		08/31/15 08:20	08/31/15 11:56	B5H1110	S5H0525
				Cyanide, Total		08/31/15 09:30	08/31/15 12:39	B5H1113	S5H0530
				EPA 531.1 Carbamates		08/28/15 10:23	08/28/15 17:43	B5H1137	S5H0524
				Mercury, Total CCVA		09/02/15 07:20	09/02/15 11:47	B5I0074	S5I0047
				EPA 504.1 DBCP/EDB		09/02/15 07:00	09/02/15 18:32	B5I0261	S5I0125

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Quality Control

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0832 - SW3015										
Blank (B5H0832-BLK1)				*Prepared: 08/24/2015 10:30*			*Analyzed: 08/25/2015 12:07*			
Antimony	< 0.0250	0.0250	mg/L							
Arsenic	< 0.0250	0.0250	mg/L							
Barium	< 0.0250	0.0250	mg/L							
Beryllium	< 0.00250	0.00250	mg/L							
Boron	< 0.0250	0.0250	mg/L							
Cadmium	< 0.00250	0.00250	mg/L							
Calcium	< 0.125	0.125	mg/L							
Chromium	< 0.0250	0.0250	mg/L							
Cobalt	< 0.0250	0.0250	mg/L							
Copper	< 0.0250	0.0250	mg/L							
Iron	< 0.125	0.125	mg/L							
Lead	< 0.0250	0.0250	mg/L							
Manganese	< 0.0250	0.0250	mg/L							
Molybdenum	< 0.0250	0.0250	mg/L							
Nickel	< 0.0250	0.0250	mg/L							
Selenium	< 0.0250	0.0250	mg/L							
Silver	< 0.00250	0.00250	mg/L							
Thallium	< 0.0250	0.0250	mg/L							
Zinc	< 0.0250	0.0250	mg/L							
LCS (B5H0832-BS1)				*Prepared: 08/24/2015 10:30*			*Analyzed: 08/25/2015 12:08*			
Antimony	1.19	0.0250	mg/L	1.25		94.9	85-117			
Arsenic	1.17	0.0250	mg/L	1.25		93.6	84-116			
Barium	1.31	0.0250	mg/L	1.25		105	86-114			
Beryllium	0.122	0.00250	mg/L	0.125		97.8	83-121			
Boron	0.640	0.0250	mg/L	0.625		102	73-130			
Cadmium	0.111	0.00250	mg/L	0.125		88.6	87-115			
Calcium	6.44	0.125	mg/L	6.25		103	87-118			
Chromium	1.29	0.0250	mg/L	1.25		103	85-116			
Cobalt	1.27	0.0250	mg/L	1.25		102	86-115			
Copper	1.24	0.0250	mg/L	1.25		98.9	85-118			
Iron	2.56	0.125	mg/L	2.50		102	87-118			
Lead	1.27	0.0250	mg/L	1.25		102	88-115			
Manganese	1.32	0.0250	mg/L	1.25		106	87-115			
Molybdenum	1.26	0.0250	mg/L	1.25		101	83-115			
Nickel	1.25	0.0250	mg/L	1.25		100	85-117			
Selenium	1.10	0.0250	mg/L	1.25		88.3	80-120			
Silver	0.125	0.00250	mg/L	0.125		100	85-116			
Thallium	1.30	0.0250	mg/L	1.25		104	82-116			
Zinc	1.11	0.0250	mg/L	1.25		88.6	83-119			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0832 - SW3015 *(Continued)*										
Serial Dilution (B5H0832-DUP1)				**Source: 15H0351-07**	*Prepared: 08/24/2015 10:30*		*Analyzed: 08/25/2015 12:45*			
Antimony	0.00418	0.125	mg/L		ND				20	
Arsenic	0.00207	0.125	mg/L		ND				20	
Barium	0.266	0.125	mg/L		ND				20	
Beryllium	< 0.00145	0.0125	mg/L		ND				20	
Boron	1.44	0.125	mg/L		1.31			9.46	20	
Cadmium	< 0.00150	0.0125	mg/L		ND				20	
Calcium	233	0.625	mg/L		ND				20	
Chromium	0.00481	0.125	mg/L		ND				20	
Cobalt	< 0.00148	0.125	mg/L		ND				20	
Copper	< 0.0160	0.125	mg/L		ND				20	
Iron	2.33	0.625	mg/L		ND				20	
Lead	< 0.00150	0.125	mg/L		ND				20	
Manganese	0.303	0.125	mg/L		ND				20	
Molybdenum	< 0.00375	0.125	mg/L		ND				20	
Nickel	0.00264	0.125	mg/L		ND				20	
Selenium	< 0.00250	0.125	mg/L		ND				20	
Silver	< 0.00200	0.0125	mg/L		ND				20	
Thallium	< 0.00150	0.125	mg/L		ND				20	
Zinc	0.0434	0.125	mg/L		ND				20	
MRL Check (B5H0832-MRL1)					*Prepared: 08/24/2015 10:30*		*Analyzed: 08/25/2015 12:10*			
Antimony	0.0319	0.0250	mg/L	0.0312		102	70-130			
Arsenic	0.0317	0.0250	mg/L	0.0312		101	70-130			
Barium	0.0338	0.0250	mg/L	0.0312		108	70-130			
Beryllium	0.00280	0.00250	mg/L	0.00312		89.6	70-130			
Boron	0.0213	0.0250	mg/L	0.0156		137	70-130			S
Cadmium	0.00297	0.00250	mg/L	0.00312		95.1	70-130			
Calcium	0.148	0.125	mg/L	0.125		119	70-130			
Chromium	0.0348	0.0250	mg/L	0.0312		111	70-130			
Cobalt	0.0249	0.0250	mg/L	0.0250		99.6	70-130			
Copper	0.0335	0.0250	mg/L	0.0312		107	70-130			
Iron	0.0886	0.125	mg/L	0.0625		142	70-130			S
Lead	0.0319	0.0250	mg/L	0.0312		102	70-130			
Manganese	0.0343	0.0250	mg/L	0.0312		110	70-130			
Molybdenum	0.0238	0.0250	mg/L	0.0250		95.4	70-130			
Nickel	0.0332	0.0250	mg/L	0.0312		106	70-130			
Selenium	0.0307	0.0250	mg/L	0.0312		98.2	70-130			
Silver	0.00322	0.00250	mg/L	0.00312		103	70-130			
Thallium	0.0361	0.0250	mg/L	0.0312		115	70-130			
Zinc	0.0373	0.0250	mg/L	0.0312		119	70-130			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0832 - SW3015 *(Continued)*										
Matrix Spike (B5H0832-MS1)		**Source: 15H0351-07**		*Prepared: 08/24/2015 10:30*		*Analyzed: 08/25/2015 12:39*				
Antimony	1.20	0.0250	mg/L	1.25	ND	95.9	75-125			
Arsenic	1.20	0.0250	mg/L	1.25	ND	95.6	75-125			
Barium	1.55	0.0250	mg/L	1.25	ND	124	75-125			
Beryllium	0.116	0.00250	mg/L	0.125	ND	92.9	75-125			
Boron	1.90	0.0250	mg/L	0.625	1.31	95.5	75-125			
Cadmium	0.111	0.00250	mg/L	0.125	ND	88.9	75-125			
Chromium	1.23	0.0250	mg/L	1.25	ND	98.3	75-125			
Cobalt	1.22	0.0250	mg/L	1.25	ND	97.4	75-125			
Copper	1.14	0.0250	mg/L	1.25	ND	91.4	75-125			
Iron	4.58	0.125	mg/L	2.50	ND	183	75-125			S
Lead	1.29	0.0250	mg/L	1.25	ND	103	75-125			
Manganese	1.58	0.0250	mg/L	1.25	ND	126	75-125			S
Molybdenum	1.29	0.0250	mg/L	1.25	ND	103	75-125			
Nickel	1.16	0.0250	mg/L	1.25	ND	93.1	75-125			
Selenium	1.11	0.0250	mg/L	1.25	ND	89.1	75-125			
Silver	0.122	0.00250	mg/L	0.125	ND	97.4	75-125			
Thallium	1.35	0.0250	mg/L	1.25	ND	108	75-125			
Zinc	1.08	0.0250	mg/L	1.25	ND	86.6	75-125			
Matrix Spike Dup (B5H0832-MSD1)		**Source: 15H0351-07**		*Prepared: 08/24/2015 10:30*		*Analyzed: 08/25/2015 12:41*				
Antimony	1.25	0.0250	mg/L	1.25	ND	100	75-125	4.40	20	
Arsenic	1.24	0.0250	mg/L	1.25	ND	99.2	75-125	3.69	20	
Barium	1.63	0.0250	mg/L	1.25	ND	131	75-125	5.03	20	S
Beryllium	0.119	0.00250	mg/L	0.125	ND	95.5	75-125	2.81	20	
Boron	2.00	0.0250	mg/L	0.625	1.31	111	75-125	4.83	20	
Cadmium	0.115	0.00250	mg/L	0.125	ND	92.4	75-125	3.86	20	
Chromium	1.31	0.0250	mg/L	1.25	ND	105	75-125	6.18	20	
Cobalt	1.27	0.0250	mg/L	1.25	ND	102	75-125	4.41	20	
Copper	1.19	0.0250	mg/L	1.25	ND	95.4	75-125	4.33	20	
Iron	4.77	0.125	mg/L	2.50	ND	191	75-125	3.97	20	S
Lead	1.32	0.0250	mg/L	1.25	ND	106	75-125	2.25	20	
Manganese	1.64	0.0250	mg/L	1.25	ND	132	75-125	4.03	20	S
Molybdenum	1.34	0.0250	mg/L	1.25	ND	107	75-125	3.61	20	
Nickel	1.24	0.0250	mg/L	1.25	ND	98.8	75-125	5.95	20	
Selenium	1.15	0.0250	mg/L	1.25	ND	92.2	75-125	3.33	20	
Silver	0.123	0.00250	mg/L	0.125	ND	98.7	75-125	1.35	20	
Thallium	1.40	0.0250	mg/L	1.25	ND	112	75-125	4.06	20	
Zinc	1.12	0.0250	mg/L	1.25	ND	89.4	75-125	3.21	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0832 - SW3015 *(Continued)*										
Post Spike (B5H0832-PS1)		**Source: 15H0351-07**		*Prepared: 08/24/2015 10:30*		*Analyzed: 08/25/2015 12:43*				
Antimony	0.274	0.0250	mg/L	0.312	ND	87.6	80-120			
Arsenic	0.296	0.0250	mg/L	0.312	ND	94.8	80-120			
Barium	0.554	0.0250	mg/L	0.312	ND	177	80-120			
Beryllium	0.143	0.00250	mg/L	0.156	ND	91.5	80-120			
Boron	1.64	0.0250	mg/L	0.312	1.31	108	80-120			
Cadmium	0.263	0.00250	mg/L	0.312	ND	84.3	80-120			
Calcium	228	0.125	mg/L	1.56	ND	14600	80-120			S
Chromium	0.295	0.0250	mg/L	0.312	ND	94.4	80-120			
Cobalt	0.301	0.0250	mg/L	0.312	ND	96.3	80-120			
Copper	0.285	0.0250	mg/L	0.312	ND	91.2	80-120			
Iron	3.74	0.125	mg/L	1.56	ND	240	80-120			S
Lead	0.323	0.0250	mg/L	0.312	ND	103	80-120			
Manganese	0.625	0.0250	mg/L	0.312	ND	200	80-120			S
Molybdenum	0.285	0.0250	mg/L	0.312	ND	91.2	80-120			
Nickel	0.277	0.0250	mg/L	0.312	ND	88.7	80-120			
Selenium	0.280	0.0250	mg/L	0.312	ND	89.7	80-120			
Silver	0.281	0.00250	mg/L	0.312	ND	90.0	80-120			
Thallium	0.327	0.0250	mg/L	0.312	ND	105	80-120			
Zinc	0.300	0.0250	mg/L	0.312	ND	95.9	80-120			
Batch: B5H0839 - SW3015										
Blank (B5H0839-BLK1)				*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 11:45*				
Antimony	< 0.0250	0.0250	mg/L							
Arsenic	< 0.0250	0.0250	mg/L							
Barium	< 0.0250	0.0250	mg/L							
Beryllium	< 0.00250	0.00250	mg/L							
Boron	< 0.0250	0.0250	mg/L							
Cadmium	< 0.00250	0.00250	mg/L							
Calcium	< 0.125	0.125	mg/L							
Chromium	< 0.0250	0.0250	mg/L							
Cobalt	< 0.0250	0.0250	mg/L							
Copper	< 0.0250	0.0250	mg/L							
Iron	< 0.125	0.125	mg/L							
Lead	< 0.0250	0.0250	mg/L							
Manganese	< 0.0250	0.0250	mg/L							
Molybdenum	< 0.0250	0.0250	mg/L							
Nickel	< 0.0250	0.0250	mg/L							
Selenium	< 0.0250	0.0250	mg/L							
Silver	< 0.00250	0.00250	mg/L							
Thallium	< 0.0250	0.0250	mg/L							
Zinc	< 0.0250	0.0250	mg/L							

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0839 - SW3015 *(Continued)*										
Blank (B5H0839-BLK1) (Continued)				*Prepared: 08/24/2015 12:30*			*Analyzed: 08/25/2015 11:45*			
LCS (B5H0839-BS1)				*Prepared: 08/24/2015 12:30*			*Analyzed: 08/25/2015 11:47*			
Antimony	1.15	0.0250	mg/L	1.25		91.9	85-117			
Arsenic	1.14	0.0250	mg/L	1.25		91.3	84-116			
Barium	1.26	0.0250	mg/L	1.25		101	86-114			
Beryllium	0.118	0.00250	mg/L	0.125		94.6	83-121			
Boron	0.631	0.0250	mg/L	0.625		101	73-130			
Cadmium	0.109	0.00250	mg/L	0.125		87.1	87-115			
Calcium	6.36	0.125	mg/L	6.25		102	87-118			
Chromium	1.24	0.0250	mg/L	1.25		99.4	85-116			
Cobalt	1.24	0.0250	mg/L	1.25		99.6	86-115			
Copper	1.20	0.0250	mg/L	1.25		95.7	85-118			
Iron	2.47	0.125	mg/L	2.50		98.9	87-118			
Lead	1.25	0.0250	mg/L	1.25		100	88-115			
Manganese	1.27	0.0250	mg/L	1.25		102	87-115			
Molybdenum	1.23	0.0250	mg/L	1.25		98.2	83-115			
Nickel	1.22	0.0250	mg/L	1.25		97.4	85-117			
Selenium	1.09	0.0250	mg/L	1.25		86.9	80-120			
Silver	0.121	0.00250	mg/L	0.125		96.5	85-116			
Thallium	1.28	0.0250	mg/L	1.25		102	82-116			
Zinc	1.08	0.0250	mg/L	1.25		86.6	83-119			
Serial Dilution (B5H0839-DUP1)				**Source: 15H0352-05**	*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 12:05*			
Antimony	0.00404	0.125	mg/L		ND				20	
Arsenic	0.0185	0.125	mg/L		0.0171			7.74	20	
Barium	0.359	0.125	mg/L		0.348			3.16	20	
Beryllium	< 0.00145	0.0125	mg/L		ND				20	
Boron	0.103	0.125	mg/L		0.0779			28.1	20	P
Cadmium	< 0.00150	0.0125	mg/L		ND				20	
Chromium	0.00452	0.125	mg/L		0.00156			97.5	20	P
Cobalt	< 0.00148	0.125	mg/L		ND				20	
Copper	< 0.0160	0.125	mg/L		ND				20	
Iron	12.3	0.625	mg/L		11.8			3.92	20	
Lead	0.00176	0.125	mg/L		0.00149			16.7	20	
Manganese	0.156	0.125	mg/L		0.153			1.62	20	
Molybdenum	< 0.00375	0.125	mg/L		ND				20	
Nickel	< 0.00205	0.125	mg/L		0.000983				20	
Selenium	< 0.00250	0.125	mg/L		ND				20	
Silver	< 0.00200	0.0125	mg/L		ND				20	
Thallium	< 0.00150	0.125	mg/L		ND				20	
Zinc	0.0456	0.125	mg/L		0.0192			81.6	20	P

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0839 - SW3015 *(Continued)*										
Serial Dilution (B5H0839-DUP2)			**Source: 15H0352-05RE1**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 13:14*			
Calcium	1210	6.25	mg/L		117			165	20	
MRL Check (B5H0839-MRL1)					*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 11:48*			
Antimony	0.0295	0.0250	mg/L	0.0312		94.4	70-130			
Arsenic	0.0309	0.0250	mg/L	0.0312		98.8	70-130			
Barium	0.0314	0.0250	mg/L	0.0312		100	70-130			
Beryllium	0.00332	0.00250	mg/L	0.00312		106	70-130			
Boron	0.0211	0.0250	mg/L	0.0156		135	70-130			S
Cadmium	0.00284	0.00250	mg/L	0.00312		90.9	70-130			
Calcium	0.149	0.125	mg/L	0.125		119	70-130			
Chromium	0.0337	0.0250	mg/L	0.0312		108	70-130			
Cobalt	0.0256	0.0250	mg/L	0.0250		102	70-130			
Copper	0.0328	0.0250	mg/L	0.0312		105	70-130			
Iron	0.0858	0.125	mg/L	0.0625		137	70-130			S
Lead	0.0302	0.0250	mg/L	0.0312		96.7	70-130			
Manganese	0.0336	0.0250	mg/L	0.0312		107	70-130			
Molybdenum	0.0238	0.0250	mg/L	0.0250		95.1	70-130			
Nickel	0.0326	0.0250	mg/L	0.0312		104	70-130			
Selenium	0.0298	0.0250	mg/L	0.0312		95.3	70-130			
Silver	0.00310	0.00250	mg/L	0.00312		99.1	70-130			
Thallium	0.0345	0.0250	mg/L	0.0312		110	70-130			
Zinc	0.0374	0.0250	mg/L	0.0312		120	70-130			
Matrix Spike (B5H0839-MS1)			**Source: 15H0352-05**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 11:59*			
Antimony	1.19	0.0250	mg/L	1.25	ND	95.0	75-125			
Arsenic	1.19	0.0250	mg/L	1.25	0.0171	93.7	75-125			
Barium	1.64	0.0250	mg/L	1.25	0.348	103	75-125			
Beryllium	0.117	0.00250	mg/L	0.125	ND	93.5	75-125			
Boron	0.690	0.0250	mg/L	0.625	0.0779	98.0	75-125			
Cadmium	0.109	0.00250	mg/L	0.125	ND	87.2	75-125			
Chromium	1.24	0.0250	mg/L	1.25	0.00156	99.2	75-125			
Cobalt	1.23	0.0250	mg/L	1.25	ND	98.0	75-125			
Copper	1.15	0.0250	mg/L	1.25	ND	92.3	75-125			
Iron	14.8	0.125	mg/L	2.50	11.8	120	75-125			
Lead	1.26	0.0250	mg/L	1.25	0.00149	101	75-125			
Manganese	1.44	0.0250	mg/L	1.25	0.153	103	75-125			
Molybdenum	1.26	0.0250	mg/L	1.25	ND	101	75-125			
Nickel	1.18	0.0250	mg/L	1.25	0.000983	94.6	75-125			
Selenium	1.11	0.0250	mg/L	1.25	ND	88.6	75-125			
Silver	0.119	0.00250	mg/L	0.125	ND	94.9	75-125			
Thallium	1.29	0.0250	mg/L	1.25	ND	103	75-125			
Zinc	1.08	0.0250	mg/L	1.25	0.0192	85.0	75-125			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0839 - SW3015 *(Continued)*										
Matrix Spike (B5H0839-MS1) (Continued)				**Source: 15H0352-05**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 11:59*		
Matrix Spike (B5H0839-MS2)				**Source: 15H0352-05RE1**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 13:08*		
Calcium	125	1.25	mg/L	6.25	117	131	75-125			
Matrix Spike Dup (B5H0839-MSD1)				**Source: 15H0352-05**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 12:01*		
Antimony	1.21	0.0250	mg/L	1.25	ND	96.5	75-125	1.51	20	
Arsenic	1.21	0.0250	mg/L	1.25	0.0171	95.1	75-125	1.47	20	
Barium	1.68	0.0250	mg/L	1.25	0.348	107	75-125	2.51	20	
Beryllium	0.117	0.00250	mg/L	0.125	ND	93.7	75-125	0.235	20	
Boron	0.697	0.0250	mg/L	0.625	0.0779	99.1	75-125	1.02	20	
Cadmium	0.112	0.00250	mg/L	0.125	ND	89.7	75-125	2.84	20	
Chromium	1.26	0.0250	mg/L	1.25	0.00156	101	75-125	1.37	20	
Cobalt	1.25	0.0250	mg/L	1.25	ND	99.7	75-125	1.66	20	
Copper	1.17	0.0250	mg/L	1.25	ND	93.5	75-125	1.26	20	
Iron	15.0	0.125	mg/L	2.50	11.8	128	75-125	1.32	20	S
Lead	1.28	0.0250	mg/L	1.25	0.00149	102	75-125	1.86	20	
Manganese	1.45	0.0250	mg/L	1.25	0.153	104	75-125	0.674	20	
Molybdenum	1.28	0.0250	mg/L	1.25	ND	103	75-125	1.72	20	
Nickel	1.21	0.0250	mg/L	1.25	0.000983	96.9	75-125	2.36	20	
Selenium	1.13	0.0250	mg/L	1.25	ND	90.6	75-125	2.21	20	
Silver	0.122	0.00250	mg/L	0.125	ND	97.5	75-125	2.72	20	
Thallium	1.33	0.0250	mg/L	1.25	ND	106	75-125	2.65	20	
Zinc	1.09	0.0250	mg/L	1.25	0.0192	86.0	75-125	1.22	20	
Matrix Spike Dup (B5H0839-MSD2)				**Source: 15H0352-05RE1**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 13:10*		
Calcium	121	1.25	mg/L	6.25	117	55.3	75-125	3.86	20	
Post Spike (B5H0839-PS1)				**Source: 15H0352-05**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 12:03*		
Antimony	0.276	0.0250	mg/L	0.312	ND	88.4	80-120			
Arsenic	0.313	0.0250	mg/L	0.312	0.0171	94.6	80-120			
Barium	0.651	0.0250	mg/L	0.312	0.348	96.9	80-120			
Beryllium	0.144	0.00250	mg/L	0.156	ND	92.4	80-120			
Boron	0.381	0.0250	mg/L	0.312	0.0779	97.0	80-120			
Cadmium	0.268	0.00250	mg/L	0.312	ND	85.7	80-120			
Chromium	0.301	0.0250	mg/L	0.312	0.00156	95.9	80-120			
Cobalt	0.305	0.0250	mg/L	0.312	ND	97.6	80-120			
Copper	0.290	0.0250	mg/L	0.312	ND	92.9	80-120			
Iron	13.4	0.125	mg/L	1.56	11.8	103	80-120			
Lead	0.319	0.0250	mg/L	0.312	0.00149	102	80-120			
Manganese	0.458	0.0250	mg/L	0.312	0.153	97.4	80-120			
Molybdenum	0.284	0.0250	mg/L	0.312	ND	91.0	80-120			
Nickel	0.283	0.0250	mg/L	0.312	0.000983	90.3	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0839 - SW3015 *(Continued)*										
Post Spike (B5H0839-PS1) (Continued)		**Source: 15H0352-05**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 12:03*				
Selenium	0.290	0.0250	mg/L	0.312	ND	92.7	80-120			
Silver	0.287	0.00250	mg/L	0.312	ND	92.0	80-120			
Thallium	0.325	0.0250	mg/L	0.312	ND	104	80-120			
Zinc	0.299	0.0250	mg/L	0.312	0.0192	89.7	80-120			
Post Spike (B5H0839-PS2)		**Source: 15H0352-05RE1**		*Prepared: 08/24/2015 12:30*		*Analyzed: 08/25/2015 13:12*				
Calcium	79.7	1.25	mg/L	15.6	117	NR	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5I0074										
Blank (B5I0074-BLK1)				*Prepared: 09/02/2015 07:20*			*Analyzed: 09/02/2015 11:28*			
Mercury	< 0.00025	0.00025	mg/L							
LCS (B5I0074-BS1)				*Prepared: 09/02/2015 07:20*			*Analyzed: 09/02/2015 11:30*			
Mercury	0.00510	0.00025	mg/L	0.00500		102	82-119			
MRL Check (B5I0074-MRL1)				*Prepared: 09/02/2015 07:20*			*Analyzed: 09/02/2015 11:09*			
Mercury	0.00033	0.00025	mg/L	0.000250		133	70-130			S
Matrix Spike (B5I0074-MS1)		**Source: 15H0352-05**		*Prepared: 09/02/2015 07:20*			*Analyzed: 09/02/2015 11:44*			
Mercury	0.00466	0.00050	mg/L	0.00400	ND	116	75-125			
Matrix Spike Dup (B5I0074-MSD1)		**Source: 15H0352-05**		*Prepared: 09/02/2015 07:20*			*Analyzed: 09/02/2015 11:45*			
Mercury	0.00450	0.00050	mg/L	0.00400	ND	112	75-125	3.49	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0795										
Blank (B5H0795-BLK1)				*Prepared: 08/21/2015 09:18*		*Analyzed: 08/21/2015 16:02*				
Chloride	< 0.300	0.300	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B5H0795-BS1)				*Prepared: 08/21/2015 09:18*		*Analyzed: 08/21/2015 16:38*				
Chloride	0.197	0.300	mg/L	0.200		98.5	87-111			
Fluoride	0.192	0.0500	mg/L	0.200		96.0	88-112			
Nitrogen, Nitrate	0.0820	0.0500	mg/L	0.0904		90.7	88-111			
Sulfate	0.355	0.500	mg/L	0.400		88.8	87-112			
LCS (B5H0795-BS2)				*Prepared: 08/21/2015 09:18*		*Analyzed: 08/21/2015 17:09*				
Chloride	4.91	0.300	mg/L	5.00		98.1	87-111			
Fluoride	5.14	0.0500	mg/L	5.00		103	88-112			
Nitrogen, Nitrate	2.06	0.0500	mg/L	2.26		91.2	88-111			
Sulfate	8.86	0.500	mg/L	10.0		88.6	87-112			
Matrix Spike (B5H0795-MS1)		**Source: 15H0351-01**		*Prepared: 08/21/2015 09:18*		*Analyzed: 08/21/2015 18:12*				
Chloride	99.8	3.00	mg/L	25.0		399	80-120			S
Fluoride	24.1	0.500	mg/L	25.0		96.4	80-120			S
Nitrogen, Nitrate	22.8	0.500	mg/L	25.0	0.106	90.8	80-120			
Sulfate	302	5.00	mg/L	25.0	287	63.3	80-120			S
Matrix Spike Dup (B5H0795-MSD1)		**Source: 15H0351-01**		*Prepared: 08/21/2015 09:18*		*Analyzed: 08/21/2015 18:43*				
Chloride	100	3.00	mg/L	25.0		400	80-120	0.250	20	S
Fluoride	24.4	0.500	mg/L	25.0		97.6	80-120	1.24	20	S
Nitrogen, Nitrate	23.1	0.500	mg/L	25.0	0.106	92.0	80-120	1.26	20	
Sulfate	302	5.00	mg/L	25.0	287	61.8	80-120	0.122	20	S
Batch: B5I0056										
Blank (B5I0056-BLK1)				*Prepared: 09/01/2015 16:02*		*Analyzed: 09/01/2015 16:29*				
Sulfate	< 0.500	0.500	mg/L							
LCS (B5I0056-BS2)				*Prepared: 09/01/2015 16:02*		*Analyzed: 09/01/2015 17:25*				
Sulfate	8.05	0.500	mg/L	10.0		80.5	87-112			S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0893										
Blank (B5H0893-BLK1)				*Prepared: 08/25/2015 10:40*			*Analyzed: 08/25/2015 10:40*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B5H0893-BS1)				*Prepared: 08/25/2015 10:40*			*Analyzed: 08/25/2015 10:40*			
Total Dissolved Solids (Residue, Filterable)	896	10.0	mg/L	955		93.8	85-111			
Duplicate (B5H0893-DUP1)		**Source: 15H0352-01**		*Prepared: 08/25/2015 10:40*			*Analyzed: 08/25/2015 10:40*			
Total Dissolved Solids (Residue, Filterable)	394	10.0	mg/L		398			1.01	5	
Batch: B5H0950										
Blank (B5H0950-BLK1)				*Prepared: 08/26/2015 07:50*			*Analyzed: 08/26/2015 07:50*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B5H0950-BS1)				*Prepared: 08/26/2015 07:50*			*Analyzed: 08/26/2015 07:50*			
Total Dissolved Solids (Residue, Filterable)	904	10.0	mg/L	955		94.7	85-111			
Duplicate (B5H0950-DUP1)		**Source: 15H0794-04**		*Prepared: 08/26/2015 07:50*			*Analyzed: 08/26/2015 07:50*			
Total Dissolved Solids (Residue, Filterable)	83200	10.0	mg/L		82900			0.385	5	
Duplicate (B5H0950-DUP2)		**Source: 15H0589-06**		*Prepared: 08/26/2015 07:50*			*Analyzed: 08/26/2015 07:50*			
Total Dissolved Solids (Residue, Filterable)	1840	10.0	mg/L		1830			0.871	5	
Batch: B5H1110										
Blank (B5H1110-BLK1)				*Prepared: 08/31/2015 08:20*			*Analyzed: 08/31/2015 11:56*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B5H1110-BS1)				*Prepared: 08/31/2015 08:20*			*Analyzed: 08/31/2015 11:56*			
Phenolics, Total Recoverable	0.0491	0.0100	mg/L	0.0500		98.1	90-110			
Matrix Spike (B5H1110-MS1)		**Source: 15H0352-06**		*Prepared: 08/31/2015 08:20*			*Analyzed: 08/31/2015 11:56*			
Phenolics, Total Recoverable	0.0483	0.0100	mg/L	0.0500	0.00957	77.5	80-120			S
Matrix Spike Dup (B5H1110-MSD1)		**Source: 15H0352-06**		*Prepared: 08/31/2015 08:20*			*Analyzed: 08/31/2015 11:56*			
Phenolics, Total Recoverable	0.0465	0.0100	mg/L	0.0500	0.00957	73.9	80-120	3.85	20	S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H1113 - SW9010B										
Blank (B5H1113-BLK1)				*Prepared: 08/31/2015 09:30*		*Analyzed: 08/31/2015 12:32*				
Cyanide	< 0.010	0.010	mg/L							
LCS (B5H1113-BS1)				*Prepared: 08/31/2015 09:30*		*Analyzed: 08/31/2015 14:46*				
Cyanide	0.052	0.010	mg/L	0.0500		105	83-116			
LCS (B5H1113-BS2)				*Prepared: 08/31/2015 09:30*		*Analyzed: 08/31/2015 12:32*				
Cyanide	0.010	0.010	mg/L	0.0100		95.7	83-116			
Matrix Spike (B5H1113-MS1)		**Source: 15H0589-03**		*Prepared: 08/31/2015 09:30*		*Analyzed: 08/31/2015 12:57*				
Cyanide	0.224	0.010	mg/L	0.200	ND	112	80-120			
Matrix Spike Dup (B5H1113-MSD1)		**Source: 15H0589-03**		*Prepared: 08/31/2015 09:30*		*Analyzed: 08/31/2015 12:57*				
Cyanide	0.212	0.010	mg/L	0.200	ND	106	80-120	5.52	10	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0789 - SW3510										
Blank (B5H0789-BLK1)				*Prepared: 08/21/2015 09:30*			*Analyzed: 08/26/2015 16:11*			
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.0500	0.0500	ug/L							
Lindane (gamma-BHC)	< 0.0500	0.0500	ug/L							
Heptachlor	< 0.0500	0.0500	ug/L							
Heptachlor epoxide	< 0.0500	0.0500	ug/L							
Methoxychlor	< 0.0500	0.0500	ug/L							
Toxaphene	< 2.00	2.00	ug/L							
Surrogate: Decachlorobiphenyl	*0.0879*		*ug/L*	*0.100*		*88*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0851*		*ug/L*	*0.100*		*85*	*44-124*			
Blank (B5H0789-BLK2)				*Prepared: 08/21/2015 09:30*			*Analyzed: 08/27/2015 17:01*			
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Simazine	< 0.500	0.500	ug/L							
LCS (B5H0789-BS1)				*Prepared: 08/21/2015 09:30*			*Analyzed: 08/26/2015 16:58*			
Endrin	0.151	0.0500	ug/L	0.200		75	60-138			
Lindane (gamma-BHC)	0.122	0.0500	ug/L	0.200		61	59-134			
Heptachlor	0.138	0.0500	ug/L	0.200		69	54-130			
Heptachlor epoxide	0.140	0.0500	ug/L	0.200		70	61-133			
Methoxychlor	0.145	0.0500	ug/L	0.200		73	54-145			
Surrogate: Decachlorobiphenyl	*0.0896*		*ug/L*	*0.100*		*90*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0871*		*ug/L*	*0.100*		*87*	*44-124*			
LCS (B5H0789-BS2)				*Prepared: 08/21/2015 14:20*			*Analyzed: 08/27/2015 17:48*			
Alachlor	0.318	0.500	ug/L	0.500		64	19-132			
Atrazine	0.189	0.500	ug/L	0.500		38	57-119			S
Simazine	0.141	0.500	ug/L	0.500		28	35-124			S
Surrogate: Decachlorobiphenyl	*0.0752*		*ug/L*	*0.100*		*75*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0785*		*ug/L*	*0.100*		*78*	*44-124*			
LCS Dup (B5H0789-BSD1)				*Prepared: 08/21/2015 09:30*			*Analyzed: 08/26/2015 17:44*			
Endrin	0.170	0.0500	ug/L	0.200		85	60-138	12	20	
Lindane (gamma-BHC)	0.138	0.0500	ug/L	0.200		69	59-134	12	20	
Heptachlor	0.157	0.0500	ug/L	0.200		79	54-130	13	20	
Heptachlor epoxide	0.156	0.0500	ug/L	0.200		78	61-133	11	20	
Methoxychlor	0.166	0.0500	ug/L	0.200		83	54-145	14	20	
Surrogate: Decachlorobiphenyl	*0.0740*		*ug/L*	*0.100*		*74*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0716*		*ug/L*	*0.100*		*72*	*44-124*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0789 - SW3510 *(Continued)*										
LCS Dup (B5H0789-BSD2)				*Prepared: 08/21/2015 14:20*			*Analyzed: 08/27/2015 18:34*			
Alachlor	0.308	0.500	ug/L	0.500		62	19-132	3	20	
Atrazine	0.224	0.500	ug/L	0.500		45	57-119	17	20	S
Simazine	0.150	0.500	ug/L	0.500		30	35-124	6	20	S
Surrogate: Decachlorobiphenyl	*0.0598*		*ug/L*	*0.100*		*60*	*30-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0708*		*ug/L*	*0.100*		*71*	*44-124*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0791 - SW3510										
Blank (B5H0791-BLK1)				*Prepared: 08/21/2015 09:30 Analyzed: 08/21/2015 17:51*						
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1016 [2C]	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1221 [2C]	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1232 [2C]	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1242 [2C]	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1248 [2C]	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1254 [2C]	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Aroclor 1260 [2C]	< 0.500	0.500	ug/L							
Total PCB	< 1.00	1.00	ug/L							
Total PCB [2C]	< 1.00	1.00	ug/L							
Surrogate: Decachlorobiphenyl	*0.0734*		*ug/L*	*0.100*		*73*	*40-135*			
Surrogate: Decachlorobiphenyl [2C]	*0.0780*		*ug/L*	*0.100*		*78*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0776*		*ug/L*	*0.100*		*78*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0797*		*ug/L*	*0.100*		*80*	*13-133*			
LCS (B5H0791-BS1)				*Prepared: 08/21/2015 09:30 Analyzed: 08/21/2015 18:20*						
Aroclor 1016	0.658	0.500	ug/L	0.800		82	46-129			
Aroclor 1016 [2C]	0.605	0.500	ug/L	0.800		76	46-129			
Aroclor 1221	< 0.123	0.800	ug/L				40-130			
Aroclor 1221 [2C]	< 0.123	0.800	ug/L				40-130			
Aroclor 1232	< 0.161	1.00	ug/L				40-130			
Aroclor 1232 [2C]	< 0.161	1.00	ug/L				40-130			
Aroclor 1242	< 0.146	1.00	ug/L				40-130			
Aroclor 1242 [2C]	< 0.146	1.00	ug/L				40-130			
Aroclor 1248	< 0.148	1.00	ug/L				62-104			
Aroclor 1248 [2C]	< 0.148	1.00	ug/L				62-104			
Aroclor 1254	< 0.116	0.800	ug/L				34-127			
Aroclor 1254 [2C]	< 0.116	0.800	ug/L				34-127			
Aroclor 1260	0.747	0.500	ug/L	0.800		93	45-134			
Aroclor 1260 [2C]	0.681	0.500	ug/L	0.800		85	45-134			
Surrogate: Decachlorobiphenyl	*0.0942*		*ug/L*	*0.100*		*94*	*40-135*			
Surrogate: Decachlorobiphenyl [2C]	*0.101*		*ug/L*	*0.100*		*101*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0968*		*ug/L*	*0.100*		*97*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0985*		*ug/L*	*0.100*		*99*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0791 - SW3510 *(Continued)*										
LCS Dup (B5H0791-BSD1)				*Prepared: 08/21/2015 09:30*			*Analyzed: 08/21/2015 18:49*			
Aroclor 1016	0.551	0.500	ug/L	0.800		69	46-129	18	20	
Aroclor 1016 [2C]	0.514	0.500	ug/L	0.800		64	46-129	16	20	
Aroclor 1221	< 0.123	0.800	ug/L				40-130		20	
Aroclor 1221 [2C]	< 0.123	0.800	ug/L				40-130		20	
Aroclor 1232	< 0.161	1.00	ug/L				40-130		20	
Aroclor 1232 [2C]	< 0.161	1.00	ug/L				40-130		20	
Aroclor 1242	< 0.146	1.00	ug/L				40-130		20	
Aroclor 1242 [2C]	< 0.146	1.00	ug/L				40-130		20	
Aroclor 1248	< 0.148	1.00	ug/L				62-104		20	
Aroclor 1248 [2C]	< 0.148	1.00	ug/L				62-104		20	
Aroclor 1254	< 0.116	0.800	ug/L				34-127		20	
Aroclor 1254 [2C]	< 0.116	0.800	ug/L				34-127		20	
Aroclor 1260	0.623	0.500	ug/L	0.800		78	45-134	18	20	
Aroclor 1260 [2C]	0.573	0.500	ug/L	0.800		72	45-134	17	20	
Surrogate: Decachlorobiphenyl	*0.0758*		*ug/L*	*0.100*		*76*	*40-135*			
Surrogate: Decachlorobiphenyl [2C]	*0.0814*		*ug/L*	*0.100*		*81*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0791*		*ug/L*	*0.100*		*79*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0811*		*ug/L*	*0.100*		*81*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H1137										
Blank (B5H1137-BLK1)				*Prepared: 08/28/2015 10:23*			*Analyzed: 08/28/2015 13:33*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B5H1137-BS1)				*Prepared: 08/28/2015 10:23*			*Analyzed: 08/28/2015 18:15*			
Aldicarb	54.1	2.00	ug/L	50.0		108	85-115			
Carbofuran	56.4	2.00	ug/L	50.0		113	85-115			
LCS Dup (B5H1137-BSD1)				*Prepared: 08/28/2015 10:23*			*Analyzed: 08/28/2015 18:48*			
Aldicarb	53.4	2.00	ug/L	50.0		107	85-115	1	20	
Carbofuran	52.6	2.00	ug/L	50.0		105	85-115	7	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0846 - SW3510										
Blank (B5H0846-BLK1)				*Prepared: 08/24/2015 13:00*			*Analyzed: 08/27/2015 14:18*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*16.5*		*ug/L*	*25.0*		*66*	*37-152*			
LCS (B5H0846-BS1)				*Prepared: 08/24/2015 13:11*			*Analyzed: 08/27/2015 15:00*			
2,4,5-TP (Silvex)	7.95	1.50	ug/L	10.0		80	72-122			
2,4-D	6.98	1.50	ug/L	10.0		70	55-112			
Picloram	3.32	1.50	ug/L	10.0		33	10-60			
Surrogate: 3,5-Dichlorobenzoic Acid	*19.2*		*ug/L*	*25.0*		*77*	*37-152*			
LCS (B5H0846-BS2)				*Prepared: 08/24/2015 13:00*			*Analyzed: 08/27/2015 16:24*			
Dinoseb	8.79	1.50	ug/L	10.0		88	52-100			
Surrogate: 3,5-Dichlorobenzoic Acid	*25.3*		*ug/L*	*25.0*		*101*	*37-152*			
LCS Dup (B5H0846-BSD1)				*Prepared: 08/24/2015 13:11*			*Analyzed: 08/27/2015 15:42*			
2,4,5-TP (Silvex)	7.40	1.50	ug/L	10.0		74	72-122	7	20	
2,4-D	6.12	1.50	ug/L	10.0		61	55-112	13	20	
Picloram	2.78	1.50	ug/L	10.0		28	10-60	18	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*18.7*		*ug/L*	*25.0*		*75*	*37-152*			
LCS Dup (B5H0846-BSD2)				*Prepared: 08/24/2015 13:00*			*Analyzed: 08/27/2015 17:06*			
Dinoseb	8.63	1.50	ug/L	10.0		86	52-100	2	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*26.3*		*ug/L*	*25.0*		*105*	*37-152*			
Batch: B5H1027 - SW3510										
Blank (B5H1027-BLK1)				*Prepared: 08/27/2015 12:00*			*Analyzed: 08/31/2015 20:48*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*14.0*		*ug/L*	*25.0*		*56*	*37-152*			
LCS (B5H1027-BS1)				*Prepared: 08/27/2015 12:00*			*Analyzed: 08/31/2015 21:30*			
2,4,5-TP (Silvex)	8.34	1.50	ug/L	10.0		83	72-122			
2,4-D	7.19	1.50	ug/L	10.0		72	55-112			
Picloram	2.40	1.50	ug/L	10.0		24	10-60			
Surrogate: 3,5-Dichlorobenzoic Acid	*17.1*		*ug/L*	*25.0*		*68*	*37-152*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H1027 - SW3510 *(Continued)*										
LCS (B5H1027-BS2)				*Prepared: 08/27/2015 12:00*			*Analyzed: 08/31/2015 22:54*			
Dinoseb	7.05	1.50	ug/L	10.0		71	52-100			
Surrogate: 3,5-Dichlorobenzoic Acid	*20.4*		*ug/L*	*25.0*		*82*	*37-152*			
LCS Dup (B5H1027-BSD1)				*Prepared: 08/27/2015 12:00*			*Analyzed: 08/31/2015 22:12*			
2,4,5-TP (Silvex)	8.85	1.50	ug/L	10.0		89	72-122	6	20	
2,4-D	7.64	1.50	ug/L	10.0		76	55-112	6	20	
Picloram	3.36	1.50	ug/L	10.0		34	10-60	33	20	P
Surrogate: 3,5-Dichlorobenzoic Acid	*16.8*		*ug/L*	*25.0*		*67*	*37-152*			
LCS Dup (B5H1027-BSD2)				*Prepared: 08/27/2015 12:00*			*Analyzed: 08/31/2015 23:37*			
Dinoseb	6.34	1.50	ug/L	10.0		63	52-100	11	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*19.4*		*ug/L*	*25.0*		*77*	*37-152*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0978 - SW5030										
Blank (B5H0978-BLK1)				*Prepared: 08/21/2015 17:31*			*Analyzed: 08/22/2015 05:54*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*21.3*		*ug/L*	*20.0*		*107*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.2*		*ug/L*	*20.0*		*101*	*81-118*			
Surrogate: Fluorobenzene	*19.6*		*ug/L*	*20.0*		*98*	*80-116*			
Surrogate: Toluene-d8	*19.0*		*ug/L*	*20.0*		*95*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*11.2*		*ug/L*	*10.0*		*112*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.4*		*ug/L*	*20.0*		*107*	*70-120*			
LCS (B5H0978-BS1)				*Prepared: 08/21/2015 17:31*			*Analyzed: 08/22/2015 02:55*			
1,1,1-Trichloroethane	78.0	2.00	ug/L	80.0		97	74-131			
1,1,2-Trichloroethane	74.6	2.00	ug/L	80.0		93	80-119			
1,1-Dichloroethene	74.0	2.00	ug/L	80.0		93	71-131			
1,2-Dichloroethane	74.2	2.00	ug/L	80.0		93	73-128			
1,2-Dichloropropane	78.7	2.00	ug/L	80.0		98	78-122			
Benzene	81.4	2.00	ug/L	80.0		102	79-120			
Carbon tetrachloride	77.3	4.00	ug/L	80.0		97	72-136			
Chlorobenzene	79.6	2.00	ug/L	80.0		100	82-118			
cis-1,2-Dichloroethene	80.0	10.0	ug/L	80.0		100	78-123			
Ethylbenzene	84.6	2.00	ug/L	80.0		106	79-121			
Methyl tert-butyl ether	83.9	2.00	ug/L	80.0		105	71-124			
Dichloromethane (Methylene chloride)	73.4	2.00	ug/L	80.0		92	74-124			
Styrene	82.2	2.00	ug/L	80.0		103	78-123			
Tetrachloroethene	80.0	4.00	ug/L	80.0		100	74-129			
Toluene	78.5	2.00	ug/L	80.0		98	80-121			

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Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0978 - SW5030 *(Continued)*										
LCS (B5H0978-BS1) (Continued)				*Prepared: 08/21/2015 17:31*			*Analyzed: 08/22/2015 02:55*			
trans-1,2-Dichloroethene	77.3	10.0	ug/L	80.0		97	75-124			
Trichloroethene	78.1	2.00	ug/L	80.0		98	79-123			
Vinyl chloride	71.4	2.00	ug/L	80.0		89	58-137			
Xylenes, Total	247	8.00	ug/L	240		103	79-121			
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.0*		*ug/L*	*20.0*		*95*	*81-118*			
Surrogate: Fluorobenzene	*20.3*		*ug/L*	*20.0*		*101*	*80-116*			
Surrogate: Toluene-d8	*19.6*		*ug/L*	*20.0*		*98*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.27*		*ug/L*	*10.0*		*93*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*18.8*		*ug/L*	*20.0*		*94*	*70-120*			
LCS Dup (B5H0978-BSD1)				*Prepared: 08/21/2015 17:31*			*Analyzed: 08/22/2015 03:25*			
1,1,1-Trichloroethane	77.3	2.00	ug/L	80.0		97	74-131	0.9	20	
1,1,2-Trichloroethane	74.6	2.00	ug/L	80.0		93	80-119	0.04	20	
1,1-Dichloroethene	71.4	2.00	ug/L	80.0		89	71-131	4	20	
1,2-Dichloroethane	73.2	2.00	ug/L	80.0		91	73-128	1	20	
1,2-Dichloropropane	76.2	2.00	ug/L	80.0		95	78-122	3	20	
Benzene	79.3	2.00	ug/L	80.0		99	79-120	3	20	
Carbon tetrachloride	76.6	4.00	ug/L	80.0		96	72-136	0.9	20	
Chlorobenzene	81.5	2.00	ug/L	80.0		102	82-118	2	20	
cis-1,2-Dichloroethene	78.5	10.0	ug/L	80.0		98	78-123	2	20	
Ethylbenzene	86.7	2.00	ug/L	80.0		108	79-121	2	20	
Methyl tert-butyl ether	81.8	2.00	ug/L	80.0		102	71-124	3	20	
Dichloromethane (Methylene chloride)	71.1	2.00	ug/L	80.0		89	74-124	3	20	
Styrene	85.6	2.00	ug/L	80.0		107	78-123	4	20	
Tetrachloroethene	74.9	4.00	ug/L	80.0		94	74-129	7	20	
Toluene	80.6	2.00	ug/L	80.0		101	80-121	3	20	
trans-1,2-Dichloroethene	75.6	10.0	ug/L	80.0		94	75-124	2	20	
Trichloroethene	75.8	2.00	ug/L	80.0		95	79-123	3	20	
Vinyl chloride	70.2	2.00	ug/L	80.0		88	58-137	2	20	
Xylenes, Total	252	8.00	ug/L	240		105	79-121	2	20	
Surrogate: Dibromofluoromethane	*19.2*		*ug/L*	*20.0*		*96*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*18.4*		*ug/L*	*20.0*		*92*	*81-118*			
Surrogate: Fluorobenzene	*19.7*		*ug/L*	*20.0*		*98*	*80-116*			
Surrogate: Toluene-d8	*19.7*		*ug/L*	*20.0*		*98*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.88*		*ug/L*	*10.0*		*99*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.7*		*ug/L*	*20.0*		*99*	*70-120*			
Batch: B5H0979 - SW5030										
Blank (B5H0979-BLK1)				*Prepared: 08/24/2015 08:55*			*Analyzed: 08/24/2015 15:12*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							

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Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0979 - SW5030 *(Continued)*										
Blank (B5H0979-BLK1) (Continued)				*Prepared: 08/24/2015 08:55*			*Analyzed: 08/24/2015 15:12*			
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*19.0*		*ug/L*	*20.0*		*95*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*18.1*		*ug/L*	*20.0*		*90*	*81-118*			
Surrogate: Fluorobenzene	*19.2*		*ug/L*	*20.0*		*96*	*80-116*			
Surrogate: Toluene-d8	*20.4*		*ug/L*	*20.0*		*102*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.7*		*ug/L*	*10.0*		*107*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.9*		*ug/L*	*20.0*		*99*	*70-120*			
LCS (B5H0979-BS1)				*Prepared: 08/24/2015 08:55*			*Analyzed: 08/24/2015 13:02*			
1,1,1-Trichloroethane	176	2.00	ug/L	80.0		220	74-131			
1,1,2-Trichloroethane	184	2.00	ug/L	80.0		230	80-119			
1,1-Dichloroethene	194	2.00	ug/L	80.0		243	71-131			
1,2-Dichloroethane	168	2.00	ug/L	80.0		210	73-128			
1,2-Dichloropropane	171	2.00	ug/L	80.0		214	78-122			
Benzene	170	2.00	ug/L	80.0		213	79-120			
Carbon tetrachloride	173	4.00	ug/L	80.0		216	72-136			
Chlorobenzene	164	2.00	ug/L	80.0		206	82-118			
cis-1,2-Dichloroethene	182	10.0	ug/L	80.0		228	78-123			
Ethylbenzene	166	2.00	ug/L	80.0		208	79-121			
Methyl tert-butyl ether	180	2.00	ug/L	80.0		225	71-124			
Dichloromethane (Methylene chloride)	179	2.00	ug/L	80.0		224	74-124			
Styrene	170	2.00	ug/L	80.0		212	78-123			
Tetrachloroethene	159	4.00	ug/L	80.0		198	74-129			
Toluene	157	2.00	ug/L	80.0		197	80-121			
trans-1,2-Dichloroethene	196	10.0	ug/L	80.0		245	75-124			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0979 - SW5030 *(Continued)*										
LCS (B5H0979-BS1) (Continued)				*Prepared: 08/24/2015 08:55*			*Analyzed: 08/24/2015 13:02*			
Trichloroethene	178	2.00	ug/L	80.0		223	79-123			
Vinyl chloride	114	2.00	ug/L	80.0		143	58-137			
Xylenes, Total	497	8.00	ug/L	240		207	79-121			
Surrogate: Dibromofluoromethane	*22.8*		*ug/L*	*20.0*		*114*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.7*		*ug/L*	*20.0*		*104*	*81-118*			
Surrogate: Fluorobenzene	*19.9*		*ug/L*	*20.0*		*99*	*80-116*			
Surrogate: Toluene-d8	*18.9*		*ug/L*	*20.0*		*94*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.5*		*ug/L*	*10.0*		*105*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.0*		*ug/L*	*20.0*		*100*	*70-120*			
LCS Dup (B5H0979-BSD1)				*Prepared: 08/24/2015 08:55*			*Analyzed: 08/24/2015 16:50*			
1,1,1-Trichloroethane	85.5	2.00	ug/L	80.0		107	74-131	69	20	
1,1,2-Trichloroethane	93.1	2.00	ug/L	80.0		116	80-119	65	20	
1,1-Dichloroethene	94.2	2.00	ug/L	80.0		118	71-131	69	20	
1,2-Dichloroethane	79.8	2.00	ug/L	80.0		100	73-128	71	20	
1,2-Dichloropropane	86.2	2.00	ug/L	80.0		108	78-122	66	20	
Benzene	85.2	2.00	ug/L	80.0		107	79-120	67	20	
Carbon tetrachloride	91.6	4.00	ug/L	80.0		114	72-136	61	20	
Chlorobenzene	82.1	2.00	ug/L	80.0		103	82-118	67	20	
cis-1,2-Dichloroethene	88.0	10.0	ug/L	80.0		110	78-123	70	20	
Ethylbenzene	83.6	2.00	ug/L	80.0		105	79-121	66	20	
Methyl tert-butyl ether	88.4	2.00	ug/L	80.0		110	71-124	68	20	
Dichloromethane (Methylene chloride)	91.1	2.00	ug/L	80.0		114	74-124	65	20	
Styrene	83.8	2.00	ug/L	80.0		105	78-123	68	20	
Tetrachloroethene	78.0	4.00	ug/L	80.0		98	74-129	68	20	
Toluene	78.8	2.00	ug/L	80.0		98	80-121	67	20	
trans-1,2-Dichloroethene	93.3	10.0	ug/L	80.0		117	75-124	71	20	
Trichloroethene	88.4	2.00	ug/L	80.0		110	79-123	67	20	
Vinyl chloride	58.4	2.00	ug/L	80.0		73	58-137	65	20	
Xylenes, Total	252	8.00	ug/L	240		105	79-121	65	20	
Surrogate: Dibromofluoromethane	*21.4*		*ug/L*	*20.0*		*107*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.9*		*ug/L*	*20.0*		*100*	*81-118*			
Surrogate: Fluorobenzene	*19.7*		*ug/L*	*20.0*		*98*	*80-116*			
Surrogate: Toluene-d8	*18.4*		*ug/L*	*20.0*		*92*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.3*		*ug/L*	*10.0*		*103*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.2*		*ug/L*	*20.0*		*101*	*70-120*			
Batch: B5H1063 - SW5030										
Blank (B5H1063-BLK1)				*Prepared: 08/21/2015 17:07*			*Analyzed: 08/22/2015 05:54*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							

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Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H1063 - SW5030 *(Continued)*										
Blank (B5H1063-BLK1) (Continued)				*Prepared: 08/21/2015 17:07*			*Analyzed: 08/22/2015 05:54*			
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*21.3*		*ug/L*	*20.0*		*107*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.2*		*ug/L*	*20.0*		*101*	*81-118*			
Surrogate: Fluorobenzene	*19.6*		*ug/L*	*20.0*		*98*	*80-116*			
Surrogate: Toluene-d8	*19.0*		*ug/L*	*20.0*		*95*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*11.2*		*ug/L*	*10.0*		*112*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.4*		*ug/L*	*20.0*		*107*	*70-120*			
LCS (B5H1063-BS1)				*Prepared: 08/21/2015 17:07*			*Analyzed: 08/22/2015 02:55*			
1,1,1-Trichloroethane	78.0	2.00	ug/L	80.0		97	74-131			
1,1,2-Trichloroethane	74.6	2.00	ug/L	80.0		93	80-119			
1,1-Dichloroethene	74.0	2.00	ug/L	80.0		93	71-131			
1,2-Dichloroethane	74.2	2.00	ug/L	80.0		93	73-128			
1,2-Dichloropropane	78.7	2.00	ug/L	80.0		98	78-122			
Benzene	81.4	2.00	ug/L	80.0		102	79-120			
Carbon tetrachloride	77.3	4.00	ug/L	80.0		97	72-136			
Chlorobenzene	79.6	2.00	ug/L	80.0		100	82-118			
cis-1,2-Dichloroethene	80.0	10.0	ug/L	80.0		100	78-123			
Ethylbenzene	84.6	2.00	ug/L	80.0		106	79-121			
Methyl tert-butyl ether	83.9	2.00	ug/L	80.0		105	71-124			
Dichloromethane (Methylene chloride)	73.4	2.00	ug/L	80.0		92	74-124			
Styrene	82.2	2.00	ug/L	80.0		103	78-123			
Tetrachloroethene	80.0	4.00	ug/L	80.0		100	74-129			
Toluene	78.5	2.00	ug/L	80.0		98	80-121			
trans-1,2-Dichloroethene	77.3	10.0	ug/L	80.0		97	75-124			
Trichloroethene	78.1	2.00	ug/L	80.0		98	79-123			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H1063 - SW5030 *(Continued)*										
LCS (B5H1063-BS1) (Continued)				*Prepared: 08/21/2015 17:07*			*Analyzed: 08/22/2015 02:55*			
Vinyl chloride	71.4	2.00	ug/L	80.0		89	58-137			
Xylenes, Total	247	8.00	ug/L	240		103	79-121			
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*19.0*		*ug/L*	*20.0*		*95*	*81-118*			
Surrogate: Fluorobenzene	*20.3*		*ug/L*	*20.0*		*101*	*80-116*			
Surrogate: Toluene-d8	*19.6*		*ug/L*	*20.0*		*98*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.27*		*ug/L*	*10.0*		*93*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*18.8*		*ug/L*	*20.0*		*94*	*70-120*			
LCS Dup (B5H1063-BSD1)				*Prepared: 08/21/2015 17:07*			*Analyzed: 08/22/2015 03:25*			
1,1,1-Trichloroethane	77.3	2.00	ug/L	80.0		97	74-131	0.9	20	
1,1,2-Trichloroethane	74.6	2.00	ug/L	80.0		93	80-119	0.04	20	
1,1-Dichloroethene	71.4	2.00	ug/L	80.0		89	71-131	4	20	
1,2-Dichloroethane	73.2	2.00	ug/L	80.0		91	73-128	1	20	
1,2-Dichloropropane	76.2	2.00	ug/L	80.0		95	78-122	3	20	
Benzene	79.3	2.00	ug/L	80.0		99	79-120	3	20	
Carbon tetrachloride	76.6	4.00	ug/L	80.0		96	72-136	0.9	20	
Chlorobenzene	81.5	2.00	ug/L	80.0		102	82-118	2	20	
cis-1,2-Dichloroethene	78.5	10.0	ug/L	80.0		98	78-123	2	20	
Ethylbenzene	86.7	2.00	ug/L	80.0		108	79-121	2	20	
Methyl tert-butyl ether	81.8	2.00	ug/L	80.0		102	71-124	3	20	
Dichloromethane (Methylene chloride)	71.1	2.00	ug/L	80.0		89	74-124	3	20	
Styrene	85.6	2.00	ug/L	80.0		107	78-123	4	20	
Tetrachloroethene	74.9	4.00	ug/L	80.0		94	74-129	7	20	
Toluene	80.6	2.00	ug/L	80.0		101	80-121	3	20	
trans-1,2-Dichloroethene	75.6	10.0	ug/L	80.0		94	75-124	2	20	
Trichloroethene	75.8	2.00	ug/L	80.0		95	79-123	3	20	
Vinyl chloride	70.2	2.00	ug/L	80.0		88	58-137	2	20	
Xylenes, Total	252	8.00	ug/L	240		105	79-121	2	20	
Surrogate: Dibromofluoromethane	*19.2*		*ug/L*	*20.0*		*96*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*18.4*		*ug/L*	*20.0*		*92*	*81-118*			
Surrogate: Fluorobenzene	*19.7*		*ug/L*	*20.0*		*98*	*80-116*			
Surrogate: Toluene-d8	*19.7*		*ug/L*	*20.0*		*98*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.88*		*ug/L*	*10.0*		*99*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.7*		*ug/L*	*20.0*		*99*	*70-120*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5I0261										
Blank (B5I0261-BLK1)				*Prepared: 09/02/2015 07:00*			*Analyzed: 09/02/2015 13:18*			
1,2-Dibromo-3-chloropropane	< 0.100	0.100	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B5I0261-BS1)				*Prepared: 09/02/2015 07:00*			*Analyzed: 09/02/2015 13:50*			
1,2-Dibromo-3-chloropropane	0.273	0.100	ug/L	0.250		109	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.264	0.100	ug/L	0.250		105	70-130			
LCS Dup (B5I0261-BSD1)				*Prepared: 09/02/2015 07:00*			*Analyzed: 09/02/2015 14:21*			
1,2-Dibromo-3-chloropropane	0.278	0.100	ug/L	0.250		111	70-130	2	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.265	0.100	ug/L	0.250		106	70-130	0.5	20	
Duplicate (B5I0261-DUP1)		**Source: 15H0352-02**		*Prepared: 09/02/2015 07:00*			*Analyzed: 09/02/2015 16:27*			
1,2-Dibromo-3-chloropropane	< 0.0250	0.100	ug/L		ND				200	
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0330	0.100	ug/L		ND				200	
Matrix Spike (B5I0261-MS1)		**Source: 15H0352-01**		*Prepared: 09/02/2015 07:00*			*Analyzed: 09/02/2015 15:24*			
1,2-Dibromo-3-chloropropane	0.249	0.0897	ug/L	0.224	ND	111	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.241	0.0897	ug/L	0.224	ND	107	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0998										
Blank (B5H0998-BLK1)				*Prepared: 08/27/2015 10:00*			*Analyzed: 08/28/2015 15:34*			
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*11.4*		*ug/L*	*10.0*		*114*	*70-130*			
LCS (B5H0998-BS1)				*Prepared: 08/27/2015 10:00*			*Analyzed: 08/28/2015 16:13*			
Dalapon	8.02	0.500	ug/L	10.0		80	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*10.2*		*ug/L*	*10.0*		*102*	*70-130*			
Duplicate (B5H0998-DUP1)		**Source: 15H0352-05**		*Prepared: 08/27/2015 10:00*			*Analyzed: 08/28/2015 23:55*			
Dalapon	< 0.122	0.500	ug/L		ND				20	
Surrogate: 2,4-Dichlorophenylacetic acid	*8.09*		*ug/L*	*10.0*		*81*	*70-130*			
Matrix Spike (B5H0998-MS1)		**Source: 15H0352-06**		*Prepared: 08/27/2015 10:00*			*Analyzed: 08/28/2015 17:30*			
Dalapon	8.73	0.500	ug/L	10.0	ND	87	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*11.6*		*ug/L*	*10.0*		*116*	*70-130*			
Matrix Spike Dup (B5H0998-MSD1)		**Source: 15H0352-06**		*Prepared: 08/27/2015 10:00*			*Analyzed: 08/28/2015 18:08*			
Dalapon	8.90	0.500	ug/L	10.0	ND	89	70-130	2	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*11.4*		*ug/L*	*10.0*		*114*	*70-130*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0808										
Blank (B5H0808-BLK1)				*Prepared: 08/23/2015 09:00*			*Analyzed: 08/24/2015 11:31*			
Endothall	< 15.5	15.5	ug/L							
Surrogate: 2,4,6-Tribromophenol	*315*		*ug/L*	*334*		*94*	*20-200*			
LCS (B5H0808-BS1)				*Prepared: 08/23/2015 09:00*			*Analyzed: 08/24/2015 12:11*			
Endothall	580	15.5	ug/L	500		116	50-150			
Surrogate: 2,4,6-Tribromophenol	*363*		*ug/L*	*334*		*109*	*20-200*			
Duplicate (B5H0808-DUP1)		**Source: 15H0352-01**		*Prepared: 08/23/2015 09:00*			*Analyzed: 08/24/2015 17:29*			
Endothall	< 11.9	15.5	ug/L		ND				20	
Surrogate: 2,4,6-Tribromophenol	*336*		*ug/L*	*334*		*101*	*20-200*			
Matrix Spike (B5H0808-MS1)		**Source: 15H0352-06**		*Prepared: 08/23/2015 09:00*			*Analyzed: 08/25/2015 00:07*			
Endothall	576	15.5	ug/L	500	ND	115	50-150			
Surrogate: 2,4,6-Tribromophenol	*330*		*ug/L*	*334*		*99*	*20-200*			
Batch: B5H0837 - SW3510										
Blank (B5H0837-BLK1)				*Prepared: 08/24/2015 09:30*			*Analyzed: 08/24/2015 16:13*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*16.1*		*ug/L*	*33.4*		*48*	*4-108*			
Surrogate: Phenol-d5	*9.73*		*ug/L*	*33.4*		*29*	*1-101*			
Surrogate: Nitrobenzene-d5	*22.8*		*ug/L*	*33.4*		*68*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*26.6*		*ug/L*	*33.4*		*80*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*15.6*		*ug/L*	*33.4*		*47*	*11-102*			
Surrogate: 4-Terphenyl-d14	*41.0*		*ug/L*	*33.4*		*123*	*79-162*			
LCS (B5H0837-BS1)				*Prepared: 08/24/2015 09:30*			*Analyzed: 08/24/2015 17:40*			
1,2,4-Trichlorobenzene	37.6	5.00	ug/L	50.0		75	36-97			
o-Dichlorobenzene (1,2-Dichlorobenzene)	35.8	5.00	ug/L	50.0		72	25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	33.8	5.00	ug/L	50.0		68	24-101			
Benzo(a)pyrene	47.7	10.0	ug/L	50.0		95	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	47.2	10.0	ug/L	50.0		94	46-122			
Hexachlorocyclopentadiene	27.4	25.0	ug/L	50.0		55	19-112			
Pentachlorophenol	35.4	100	ug/L	50.0		71	37-120			
Surrogate: 2-Fluorophenol	*18.5*		*ug/L*	*33.4*		*56*	*4-108*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q15
Work Order: 15H0352

Report Date: 09/17/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5H0837 - SW3510 *(Continued)*										
LCS (B5H0837-BS1) (Continued)				*Prepared: 08/24/2015 09:30*			*Analyzed: 08/24/2015 17:40*			
Surrogate: Phenol-d5	*12.5*		*ug/L*	*33.4*		*38*	*1-101*			
Surrogate: Nitrobenzene-d5	*28.9*		*ug/L*	*33.4*		*87*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*33.5*		*ug/L*	*33.4*		*101*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*31.2*		*ug/L*	*33.4*		*94*	*11-102*			
Surrogate: 4-Terphenyl-d14	*43.9*		*ug/L*	*33.4*		*132*	*79-162*			
LCS Dup (B5H0837-BSD1)				*Prepared: 08/24/2015 09:30*			*Analyzed: 08/24/2015 18:23*			
1,2,4-Trichlorobenzene	35.2	5.00	ug/L	50.0		70	36-97	7	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	34.7	5.00	ug/L	50.0		69	25-101	3	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	33.2	5.00	ug/L	50.0		66	24-101	2	20	
Benzo(a)pyrene	45.9	10.0	ug/L	50.0		92	49-124	4	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	43.0	10.0	ug/L	50.0		86	46-122	9	20	
Hexachlorocyclopentadiene	21.5	25.0	ug/L	50.0		43	19-112	24	20	P
Pentachlorophenol	35.9	100	ug/L	50.0		72	37-120	1	20	
Surrogate: 2-Fluorophenol	*17.1*		*ug/L*	*33.4*		*51*	*4-108*			
Surrogate: Phenol-d5	*11.5*		*ug/L*	*33.4*		*35*	*1-101*			
Surrogate: Nitrobenzene-d5	*27.2*		*ug/L*	*33.4*		*81*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*29.9*		*ug/L*	*33.4*		*90*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*28.2*		*ug/L*	*33.4*		*84*	*11-102*			
Surrogate: 4-Terphenyl-d14	*40.5*		*ug/L*	*33.4*		*122*	*79-162*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	ISO,AKDEC,WDNR,DoD,ILEPA
Barium	7440-39-3	ISO,AKDEC,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	ISO,AKDEC,WDNR,DoD,ILEPA
Calcium	7440-70-2	DoD,ILEPA
Chromium	7440-47-3	ISO,AKDEC,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	ISO,AKDEC,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Molybdenum	7439-98-7	WDNR,DoD,ILEPA
Nickel	7440-02-0	ISO,AKDEC,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	ISO,WDNR,DoD,ILEPA
Zinc	7440-66-6	ISO,WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
Total PCB	1336-36-3	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Benzene	71-43-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,DoD,ILEPA
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Styrene	100-42-5	LELAP,WDNR,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,LELAP,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,DoD,ILEPA
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321A in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem in Water		

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9014 by Aquachem in Water (Continued)		
Cyanide	57-12-5	DoD,ILEPA,WDNR
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR
SW9065 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2016
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	07/27/2016
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2016
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2016

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Environmental Monitoring and Technologies, Inc.

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Qualifiers and Definitions

Item	Description
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

Environmental Monitoring and Technol
8100 Austin Ave
Morton Grove
IL, 60053-3203

15H0352

PM: Jason Cristino
City, Water, Light & Power
Fax: 847-967-5[illegible]

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COC Number

Lab Work Order Number 15H0352

Client Name	Project Name
City, Water, Light & Power	
Client Contact	
Sue Corcoran	List G20
Address	Project Description
201 East Lake Shore Drive	
City	
Springfield	3Q15 GW
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 8/18/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AW-3	08/20/15	10:15	G	W	22	3	1	3	13	1	1	01 ABCDEFGHIJK LMNOPQRSTU
AP-1	08/20/15	08:50	G	W	22	3	1	3	13	1	1	02 ABCDEFGHIJK LMNOPQRSTU
AP-2	08/20/15	09:35	G	W	22	3	1	3	13	1	1	03 ABCDEFGHIJ KLMNOPQRSTU
AP-3			G	W	22	3	1	3	13	1	1	
AP-4			G	W	22	3	1	3	13	1	1	
AP-5			G	W	22	3	1	3	13	1	1	

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	8/20/15 14:40				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time		
			8/21/15 1440		

Cooler Numbers and Temperatures: 3

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

pH 7 = 7.00 @ 08:25

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 15H0352

Client Name	City, Water, Light & Power
Client Contact	Sue Corcoran
Address	201 East Lake Shore Drive
City	Springfield
State/Zip	IL, 62707-
Phone	(217) 757-8610
Fax	(217) 757-8615
Sampler	S. D. Schajda
Sampler Signature	
Project Name	List G20
Project Description	3Q15 GW
Shipped By	
Tracking Number	

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::S; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 8/18/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AW-3			G	W	22	3	1	3	13	1	1	
AP-1			G	W	22	3	1	3	13	1	1	
AP-2			G	W	22	3	1	3	13	1	1	
AP-3			G	W	22	3	1	3	13	1	1	
AP-4	08/20/15	09:40	G	W	22	3	1	3	13	1	1	ABCDEFGHI JKLMNOPQRSTU
AP-5	08/20/15	08:40	G	W	22	3	1	3	13	1	1	ABCDEFGHIJK LMNOPQRSTU

Relinquished By	Date/Time 08/20/15 11:00	Received By	Date/Time 08/20/15 11:00	Sample Kit Prepared By	Date/Time
Relinquished By	Date/Time 08/20/15 11:40	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 8/20/15 1440		
Cooler Numbers and Temperatures		3			

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=Ni

pH 7= 7.00 07:03

Response to 1st RTP
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Environmental Monitoring and Technol
8100 Austin Ave
Morton Grove
IL, 60053-3203

15H0352
PM: Jason Cristino
City, Water, Light & Power

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COC Number
Lab Work Order Number 15H0352

Client Name	Project Name
City, Water, Light & Power	
Client Contact	
Sue Corcoran	List G20
Address	Project Description
201 East Lake Shore Drive	
City	
Springfield	3Q15 GW
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::S; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.
Standard (days): 5
Expedited (days):
Due Date: 8/18/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9 *	4	2	Sample Comments
AW-3	8/20/15 CLD	10:15	G	W	22	3	1	3	13	1	1	01 ABCDEFGHIJK LMNOPQRSTU MM 8/20
AP-1	08/20/15	08:50	G	W	22	3	1	3	13	1	1	02 ABCDEFGHIJK LMNOPQRSTU
AP-2	08/20/15	09:35	G	W	22	3	1	3	13	1	1	03 ABCDEFGHIJK LMNOPQRSTU
AP-3	08/20/15	10:15	G	W	22	3	1	3	13	1	1	04 ABCDEFGHIJK LMNOPQRSTU
AP-4			G	W	22	3	1	3	13	1	1	
AP-5			G	W	22	3	1	3	13	1	1	

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	8/20/15 14:40				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time		
			8/21/15 1440		

Cooler Numbers and Temperatures: 3

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=Nc

pH 7 = 7.00 @ 08:25

Response to 1st RTP
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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

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COC Number

Lab Work Order Number 15H0352

Client Name	City, Water, Light & Power
Client Contact	Sue Corcoran
Address	201 East Lake Shore Drive
City	Springfield
State/Zip	IL, 62707-
Phone	(217) 757-8610
Fax	(217) 757-8615
Sampler	S. D. Suhajda
Sampler Signature	
Project Name	List G20
Project Description	3Q15 GW
Shipped By	
Tracking Number	

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::S; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days) 5

Expedited (days)

Due Date 8/18/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	2					
AW-3	08/20/15	12:55	G	W	22	3	1	3	13	1	1					01ABCDEFGHIJKLMNOPQRSTU
AP-1			G	W	22	3	1	3	13	1	1					
AP-2			G	W	22	3	1	3	13	1	1					
AP-3			G	W	22	3	1	3	13	1	1					
AP-4			G	W	22	3	1	3	13	1	1					
AP-5			G	W	22	3	1	3	13	1	1					

Relinquished By	Date/Time 08/20/15 18:50	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 8/21/15 830	pH 7.00 → 7.02	
Cooler Numbers and Temperatures	3				

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=Nc

Response to 1st RTP
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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

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COC Number

Lab Work Order Number 15H0352

Client Name	City, Water, Light & Power
Client Contact	Sue Corcoran
Address	201 East Lake Shore Drive
City	Springfield
State/Zip	IL, 62707-
Phone	(217) 757-8610
Fax	(217) 757-8615
Sampler	S. D. Schajda
Sampler Signature	
Project Name	List G20
Project Description	3Q15 GW
Shipped By	
Tracking Number	

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 8/18/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2	Sample Comments
AW-3			G	W	22	3	1	3	13	1	1	
AP-1			G	W	22	3	1	3	13	1	1	
AP-2			G	W	22	3	1	3	13	1	1	
AP-3			G	W	22	3	1	3	13	1	1	
AP-4	08/20/15	09:40	G	W	22	3	1	3	13	1	1	05 ABCDEFGH JKLMNOPQ
AP-5	08/20/15	08:40	G	W	22	3	1	3	13	1	1	06 ABCDEFGH LMNOPQR

Relinquished By		Date/Time 08/20/15 11:00	Received By	Date/Time 08/20/15 11:00	Sample Kit Prepared By / Date/Time
Relinquished By		Date/Time 08/20/15 17:40	Received By	Date/Time	Comments
Relinquished By		Date/Time	Received By	Date/Time 8/20/15 1440	
Cooler Numbers and Temperatures	3				

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

pH 7 = 7.00 07:03

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-118915-1
Client Project/Site: 15H0352

For:
Environmental Monitoring and Technologie
8050 North Austin Avenue
Morton Grove, Illinois 60053

Attn: Mr. Matt Gregory

Authorized for release by:
9/3/2015 2:04:20 PM

Urvashi Patel, Project Manager I
(949)261-1022
urvashi.patel@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Electronic Filing: Received, Clerk's Office 01/29/2020

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Sample Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-118915-1	15H0352-01	Water	08/20/15 12:55	08/25/15 12:25
440-118915-2	15H0352-02	Water	08/20/15 08:50	08/25/15 12:25
440-118915-3	15H0352-03	Water	08/20/15 09:35	08/25/15 12:25
440-118915-4	15H0352-04	Water	08/20/15 10:15	08/25/15 12:25
440-118915-5	15H0352-05	Water	08/20/15 09:40	08/25/15 12:25
440-118915-6	15H0352-06	Water	08/20/15 08:40	08/25/15 12:25

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Case Narrative

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Job ID: 440-118915-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-118915-1

Comments
No additional comments.

Receipt
The samples were received on 8/25/2015 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.7º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Client Sample ID: 15H0352-01
Lab Sample ID: 440-118915-1
Date Collected: 08/20/15 12:55
Matrix: Water
Date Received: 08/25/15 12:25

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 19:21	1

Client Sample ID: 15H0352-02
Lab Sample ID: 440-118915-2
Date Collected: 08/20/15 08:50
Matrix: Water
Date Received: 08/25/15 12:25

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 19:40	1

Client Sample ID: 15H0352-03
Lab Sample ID: 440-118915-3
Date Collected: 08/20/15 09:35
Matrix: Water
Date Received: 08/25/15 12:25

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 19:42	1

Client Sample ID: 15H0352-04
Lab Sample ID: 440-118915-4
Date Collected: 08/20/15 10:15
Matrix: Water
Date Received: 08/25/15 12:25

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 19:44	1

Client Sample ID: 15H0352-05
Lab Sample ID: 440-118915-5
Date Collected: 08/20/15 09:40
Matrix: Water
Date Received: 08/25/15 12:25

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 19:45	1

Client Sample ID: 15H0352-06
Lab Sample ID: 440-118915-6
Date Collected: 08/20/15 08:40
Matrix: Water
Date Received: 08/25/15 12:25

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 19:47	1

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Method Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Client Sample ID: 15H0352-01
Date Collected: 08/20/15 12:55
Date Received: 08/25/15 12:25

Lab Sample ID: 440-118915-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	277539	09/01/15 12:36	EN	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	277726	09/01/15 19:21	DP	TAL IRV

Client Sample ID: 15H0352-02
Date Collected: 08/20/15 08:50
Date Received: 08/25/15 12:25

Lab Sample ID: 440-118915-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	277539	09/01/15 12:36	EN	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	277726	09/01/15 19:40	DP	TAL IRV

Client Sample ID: 15H0352-03
Date Collected: 08/20/15 09:35
Date Received: 08/25/15 12:25

Lab Sample ID: 440-118915-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	277539	09/01/15 12:36	EN	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	277726	09/01/15 19:42	DP	TAL IRV

Client Sample ID: 15H0352-04
Date Collected: 08/20/15 10:15
Date Received: 08/25/15 12:25

Lab Sample ID: 440-118915-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	277539	09/01/15 12:36	EN	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	277726	09/01/15 19:44	DP	TAL IRV

Client Sample ID: 15H0352-05
Date Collected: 08/20/15 09:40
Date Received: 08/25/15 12:25

Lab Sample ID: 440-118915-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	277539	09/01/15 12:36	EN	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	277726	09/01/15 19:45	DP	TAL IRV

Client Sample ID: 15H0352-06
Date Collected: 08/20/15 08:40
Date Received: 08/25/15 12:25

Lab Sample ID: 440-118915-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	277539	09/01/15 12:36	EN	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	277726	09/01/15 19:47	DP	TAL IRV

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Lab Chronicle

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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QC Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-277539/1-A
Matrix: Water
Analysis Batch: 277726

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 277539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		09/01/15 12:36	09/01/15 18:19	1

Lab Sample ID: LCS 440-277539/2-A
Matrix: Water
Analysis Batch: 277726

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 277539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	1.00	0.967		mg/L		97	80 - 120

Lab Sample ID: 720-66910-A-2-B MS ^10
Matrix: Water
Analysis Batch: 277726

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 277539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	ND		1.00	1.22		mg/L		122	75 - 125

Lab Sample ID: 720-66910-A-2-C MSD ^10
Matrix: Water
Analysis Batch: 277726

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 277539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	ND		1.00	1.13		mg/L		113	75 - 125	7	20

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QC Association Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Metals

Prep Batch: 277539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-118915-1	15H0352-01	Total Recoverable	Water	3005A	
440-118915-2	15H0352-02	Total Recoverable	Water	3005A	
440-118915-3	15H0352-03	Total Recoverable	Water	3005A	
440-118915-4	15H0352-04	Total Recoverable	Water	3005A	
440-118915-5	15H0352-05	Total Recoverable	Water	3005A	
440-118915-6	15H0352-06	Total Recoverable	Water	3005A	
720-66910-A-2-B MS ^10	Matrix Spike	Total Recoverable	Water	3005A	
720-66910-A-2-C MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 440-277539/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-277539/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 277726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-118915-1	15H0352-01	Total Recoverable	Water	6010B	277539
440-118915-2	15H0352-02	Total Recoverable	Water	6010B	277539
440-118915-3	15H0352-03	Total Recoverable	Water	6010B	277539
440-118915-4	15H0352-04	Total Recoverable	Water	6010B	277539
440-118915-5	15H0352-05	Total Recoverable	Water	6010B	277539
440-118915-6	15H0352-06	Total Recoverable	Water	6010B	277539
720-66910-A-2-B MS ^10	Matrix Spike	Total Recoverable	Water	6010B	277539
720-66910-A-2-C MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	6010B	277539
LCS 440-277539/2-A	Lab Control Sample	Total Recoverable	Water	6010B	277539
MB 440-277539/1-A	Method Blank	Total Recoverable	Water	6010B	277539

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Certification Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15H0352

TestAmerica Job ID: 440-118915-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

440-118915 Chain of Custody

15H0352

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Test America, Irvine, CA, Subcontract
17461 Derian, STE 100
Irvine, CA 92614-
Phone :(949) 261-1022
Fax: (949) 230-3299

10 Day TAT

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 15H0352-01 **Water**	**Sampled:08/20/15 12:55**			
ICP Metals, Lithium	~~08/27/15 12:00~~	02/16/16 12:55		PO #: 60265 for Li by Method 6010, need RL of 0.050 mg/L, Standard 10 day Turn-around.
Containers Supplied:				
Sample ID: 15H0352-02 **Water**	**Sampled:08/20/15 08:50**			
ICP Metals, Lithium	~~08/27/15 12:00~~	02/16/16 08:50		PO #: 60265 for Li by Method 6010, need RL of 0.050 mg/L, Standard 10 day Turn-around.
Containers Supplied:				
Sample ID: 15H0352-03 **Water**	**Sampled:08/20/15 09:35**			
ICP Metals, Lithium	~~08/27/15 12:00~~	02/16/16 09:35		PO #: 60265 for Li by Method 6010, need RL of 0.050 mg/L, Standard 10 day Turn-around.
Containers Supplied:				
Sample ID: 15H0352-04 **Water**	**Sampled:08/20/15 10:15**			
ICP Metals, Lithium	~~08/27/15 12:00~~	02/16/16 10:15		PO #: 60265 for Li by Method 6010, need RL of 0.050 mg/L, Standard 10 day Turn-around.
Containers Supplied:				
Sample ID: 15H0352-05 **Water**	**Sampled:08/20/15 09:40**			
ICP Metals, Lithium	~~08/27/15 12:00~~	02/16/16 09:40		PO #: 60265 for Li by Method 6010, need RL of 0.050 mg/L, Standard 10 day Turn-around.
Containers Supplied:				

PO # 60265 for Lithium by 6010

UPS: 1Z 873 F0R 13 9281 2127

Released By	Date	Received By	Date
	8/21/15		8/25/15 12:25
Released By	Date	Received By	Date
		(CS)	11.5/11.7 IR-74 Melted Ice

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

15H0352

Analysis		Due – 10 day TAT	Expires	Comments
Sample ID: 15H0352-06	**Water**	**Sampled:08/20/15 08:40**		
ICP Metals, Lithium		~~08/27/15 12:~~00	02/16/16 08:40	PO #: 60265 for Li by Method 6010, need RL of 0.050 mg/L, Standard 10 day Turn-around.
Containers Supplied:				

Released By	Date	Received By	Date
		Vu Banh	8/25/15 12:25
Released By	Date	Received By	Date
		(CS) 11.5/11.7 Melted Ice IR-7H	

Login Sample Receipt Checklist

Client: Environmental Monitoring and Technologie

Job Number: 440-118915-1

Login Number: 118915
List Number: 1
Creator: Kim, Guerry

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environmental Monitoring and Technologies, Inc.

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

December 21, 2015

Work Order: 15K0180

RE: List G20
4Q2015

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 12/16/2015 12:07:43PM

Approved by,



Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	15K0180-01	Groundwater	11/13/15 09:45	11/13/15 14:15
AP-1	15K0180-02	Groundwater	11/13/15 09:00	11/13/15 14:15
AP-3	15K0180-04	Groundwater	11/13/15 08:25	11/13/15 14:15
AP-4	15K0180-05	Groundwater	11/13/15 07:50	11/13/15 14:15
AP-5	15K0180-06	Groundwater	11/13/15 07:55	11/13/15 14:15
AW-3	15K0180-01	Groundwater	11/13/15 09:45	11/13/15 14:15
AP-1	15K0180-02	Groundwater	11/13/15 09:00	11/13/15 14:15
AP-3	15K0180-04	Groundwater	11/13/15 08:25	11/13/15 14:15
AP-4	15K0180-05	Groundwater	11/13/15 07:50	11/13/15 14:15
AP-5	15K0180-06	Groundwater	11/13/15 07:55	11/13/15 14:15
AW-3	15K0180-01	Groundwater	11/13/15 09:45	11/13/15 14:15
AP-1	15K0180-02	Groundwater	11/13/15 09:00	11/13/15 14:15
AP-3	15K0180-04	Groundwater	11/13/15 08:25	11/13/15 14:15
AP-4	15K0180-05	Groundwater	11/13/15 07:50	11/13/15 14:15
AP-5	15K0180-06	Groundwater	11/13/15 07:55	11/13/15 14:15

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Case Narrative

Client: City, Water, Light & Power **Date:** 12/21/2015
Project: List G20
4Q2015
Work Order: 15K0180

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 15K0180
The samples were received on11/13/15 14:15. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	5.0

degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. For the Radium test on 15K0180-06, the sample was decanted prior to analysis due to the amount of sediment present.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC/MS Volatiles

Method: 8260B_VOC, B5K09432-BLK1: Method blank is contaminated above MRL with Toluene, and with Methylene chloride below the MRL. These contaminates were not detected above MRL in the associated sample.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AW-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:45
Matrix: Groundwater
Lab ID: 15K0180-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**496.0100**			No unit	11/13/15 09:45	B5K0837	PB
Depth to water (feet below land surface)	**10.4700**			No unit	11/13/15 09:45	B5K0837	PB
Depth to water (feet from measuring point)	**13.0500**			No unit	11/13/15 09:45	B5K0837	PB
Elevation of groundwater surface (Feet)	**527.2800**			No unit	11/13/15 09:45	B5K0837	PB
Method: SM2510B							
Specific Conductance	**758**			uS/cm	11/13/15 09:45	B5K0837	PB
Method: SM2550-B							
Temperature	**54.2**			°F	11/13/15 09:45	B5K0837	PB
Method: SM4500-H							
pH	**7.52**	0.05		pH Units	11/13/15 09:45	B5K0837	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Arsenic	**151**	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Barium	**213**	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Beryllium	< 5.00	5.00		ug/L	11/19/15 11:43	B5K0749	AG
Boron	**180**	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Cadmium	< 5.00	5.00		ug/L	11/19/15 11:43	B5K0749	AG
Calcium	**90.7**	0.250		mg/L	11/19/15 11:43	B5K0749	AG
Chromium	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Cobalt	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Copper	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Iron	**11500**	250		ug/L	11/19/15 11:43	B5K0749	AG
Lead	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Manganese	**302**	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Molybdenum	< 0.0500	0.0500		mg/L	11/19/15 11:43	B5K0749	AG
Nickel	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Selenium	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Silver	< 5.00	5.00		ug/L	11/19/15 11:43	B5K0749	AG
Thallium	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Zinc	< 50.0	50.0		ug/L	11/19/15 11:43	B5K0749	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/25/15 13:19	B5K1058	MB1
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**33.0**	3.00		mg/L	11/14/15 05:46	B5K0619	DZ1
Fluoride	**0.600**	0.500		mg/L	11/14/15 05:46	B5K0619	DZ1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AW-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:45
Matrix: Groundwater
Lab ID: 15K0180-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Nitrogen, Nitrate	< 0.500	0.500		mg/L		11/14/15 05:46	B5K0619	DZ1
Sulfate	< 5.00	5.00		mg/L		11/14/15 05:46	B5K0619	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**418**	10.0		mg/L		11/19/15 08:30	B5K0826	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/24/15 14:40	B5K1018	LS3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/24/15 13:40	B5K1011	LS3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.487	0.487		ug/L		12/02/15 18:43	B5K0674	LP
Atrazine	< 0.487	0.487		ug/L		12/02/15 18:43	B5K0674	LP
Chlordane	< 0.487	0.487		ug/L		12/02/15 18:43	B5K0674	LP
Endrin	< 0.0487	0.0487		ug/L		12/02/15 18:43	B5K0674	LP
gamma-BHC	< 0.0487	0.0487		ug/L		12/02/15 18:43	B5K0674	LP
Heptachlor	< 0.0487	0.0487		ug/L		12/02/15 18:43	B5K0674	LP
Heptachlor epoxide	< 0.0487	0.0487		ug/L		12/02/15 18:43	B5K0674	LP
Methoxychlor	< 0.0487	0.0487		ug/L		12/02/15 18:43	B5K0674	LP
Simazine	< 0.487	0.487		ug/L		12/02/15 18:43	B5K0674	LP
Toxaphene	< 1.95	1.95		ug/L		12/02/15 18:43	B5K0674	LP
Surrogate: Decachlorobiphenyl				*Recovery: 43%*	*Limits: 30-135*	*12/02/15 18:43*	*B5K0674*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 36%*	*Limits: 44-124*	*12/02/15 18:43*	*B5K0674*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.487	0.487		ug/L		11/21/15 21:44	B5K0676	PM1
Aroclor 1221	< 0.779	0.779		ug/L		11/21/15 21:44	B5K0676	PM1
Aroclor 1232	< 0.974	0.974		ug/L		11/21/15 21:44	B5K0676	PM1
Aroclor 1242	< 0.974	0.974		ug/L		11/21/15 21:44	B5K0676	PM1
Aroclor 1248	< 0.974	0.974		ug/L		11/21/15 21:44	B5K0676	PM1
Aroclor 1254	< 0.779	0.779		ug/L		11/21/15 21:44	B5K0676	PM1
Aroclor 1260	< 0.487	0.487		ug/L		11/21/15 21:44	B5K0676	PM1
Total PCB	< 0.974	0.974		ug/L		11/21/15 21:44	B5K0676	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 50%*	*Limits: 40-135*	*11/21/15 21:44*	*B5K0676*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 13-133*	*11/21/15 21:44*	*B5K0676*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/02/15 12:22	B5L0069	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AW-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:45
Matrix: Groundwater
Lab ID: 15K0180-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: E531.1 (Continued)								
Carbofuran	< 2.00	2.00		ug/L		12/02/15 12:22	B5L0069	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.45	1.45		ug/L		11/29/15 19:59	B5K0804	JL
2,4-D	< 1.45	1.45		ug/L		11/29/15 19:59	B5K0804	JL
Dinoseb	< 1.45	1.45		ug/L		11/29/15 19:59	B5K0804	JL
Picloram	< 1.45	1.45		ug/L		11/29/15 19:59	B5K0804	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 37-152*	*11/29/15 19:59*	*B5K0804*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Benzene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/18/15 16:43	B5K0943	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 16:43	B5K0943	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Dichloromethane	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Styrene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/18/15 16:43	B5K0943	XN
Toluene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 16:43	B5K0943	XN
Trichloroethene	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/18/15 16:43	B5K0943	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/18/15 16:43	B5K0943	XN
Surrogate: Dibromofluoromethane				*Recovery: 88%*	*Limits: 80-119*	*11/18/15 16:43*	*B5K0943*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 102%*	*Limits: 81-118*	*11/18/15 16:43*	*B5K0943*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*11/18/15 16:43*	*B5K0943*	*XN*
Surrogate: Toluene-d8				*Recovery: 100%*	*Limits: 89-112*	*11/18/15 16:43*	*B5K0943*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 85-114*	*11/18/15 16:43*	*B5K0943*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 70-120*	*11/18/15 16:43*	*B5K0943*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AW-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:45
Matrix: Groundwater
Lab ID: 15K0180-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		12/04/15 17:17	B5L0481	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		12/04/15 17:17	B5L0481	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		11/24/15 15:59	B5K1004	MNN
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 86%*	*Limits: 70-130*	*11/24/15 15:59*	*B5K1004*	*MNN*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/02/15 08:35	B5K0906	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 146%*	*Limits: 20-200*	*12/02/15 08:35*	*B5K0906*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.97	4.97		ug/L		12/05/15 02:17	B5K0633	BW1
o-Dichlorobenzene	< 4.97	4.97		ug/L		12/05/15 02:17	B5K0633	BW1
p-Dichlorobenzene	< 4.97	4.97		ug/L		12/05/15 02:17	B5K0633	BW1
Benzo(a)pyrene	< 9.93	9.93		ug/L		12/05/15 02:17	B5K0633	BW1
Di(2-ethylhexyl)phthalate	< 9.93	9.93		ug/L		12/05/15 02:17	B5K0633	BW1
Hexachlorocyclopentadiene	< 24.8	24.8		ug/L		12/05/15 02:17	B5K0633	BW1
Pentachlorophenol	< 99.3	99.3		ug/L		12/05/15 02:17	B5K0633	BW1
Surrogate: 2-Fluorophenol				*Recovery: 37%*	*Limits: 4-108*	*12/05/15 02:17*	*B5K0633*	*BW1*
Surrogate: Phenol-d5				*Recovery: 25%*	*Limits: 1-101*	*12/05/15 02:17*	*B5K0633*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 61%*	*Limits: 23-119*	*12/05/15 02:17*	*B5K0633*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 72%*	*Limits: 28-124*	*12/05/15 02:17*	*B5K0633*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 56%*	*Limits: 11-102*	*12/05/15 02:17*	*B5K0633*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 112%*	*Limits: 79-162*	*12/05/15 02:17*	*B5K0633*	*BW1*

Eurofins (Underwriters Laboratory), Subcontract

Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.29**	1		pCi/L		12/09/15 00:00	15K0180-01	UL
Radium-228	**-0.68**	1		pCi/L		12/09/15 00:00	15K0180-01	UL

Test America, Irvine, CA, Subcontract

Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		11/21/15 00:00	15K0180-01	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-1
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:00
Matrix: Groundwater
Lab ID: 15K0180-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**504.3600**			No unit	11/13/15 09:00	B5K0837	PB
Depth to water (feet below land surface)	**8.5800**			No unit	11/13/15 09:00	B5K0837	PB
Depth to water (feet from measuring point)	**10.8500**			No unit	11/13/15 09:00	B5K0837	PB
Elevation of groundwater surface (Feet)	**524.5200**			No unit	11/13/15 09:00	B5K0837	PB
Method: SM2510B							
Specific Conductance	**1480**			uS/cm	11/13/15 09:00	B5K0837	PB
Method: SM2550-B							
Temperature	**54.3**			°F	11/13/15 09:00	B5K0837	PB
Method: SM4500-H							
pH	**7.13**	0.05		pH Units	11/13/15 09:00	B5K0837	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Arsenic	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Barium	**303**	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Beryllium	< 5.00	5.00		ug/L	11/19/15 11:45	B5K0749	AG
Boron	**18800**	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Cadmium	< 5.00	5.00		ug/L	11/19/15 11:45	B5K0749	AG
Calcium	**242**	0.250		mg/L	11/19/15 11:45	B5K0749	AG
Chromium	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Cobalt	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Copper	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Iron	**26300**	250		ug/L	11/19/15 11:45	B5K0749	AG
Lead	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Manganese	**546**	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Molybdenum	< 0.0500	0.0500		mg/L	11/19/15 11:45	B5K0749	AG
Nickel	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Selenium	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Silver	< 5.00	5.00		ug/L	11/19/15 11:45	B5K0749	AG
Thallium	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Zinc	< 50.0	50.0		ug/L	11/19/15 11:45	B5K0749	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/25/15 13:35	B5K1058	MB1
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**68.9**	3.00		mg/L	11/14/15 06:17	B5K0619	DZ1
Fluoride	< 0.500	0.500		mg/L	11/14/15 06:17	B5K0619	DZ1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-1
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:00
Matrix: Groundwater
Lab ID: 15K0180-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Nitrogen, Nitrate	< 0.500	0.500		mg/L		11/14/15 06:17	B5K0619	DZ1
Sulfate	**388**	50.0		mg/L		11/26/15 01:28	B5K1096	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1280**	10.0		mg/L		11/19/15 08:30	B5K0826	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/24/15 14:40	B5K1018	LS3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	**0.0125**	0.0100		mg/L		11/24/15 13:40	B5K1011	LS3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.478	0.478		ug/L		12/02/15 19:30	B5K0674	LP
Atrazine	< 0.478	0.478		ug/L		12/02/15 19:30	B5K0674	LP
Chlordane	< 0.478	0.478		ug/L		12/02/15 19:30	B5K0674	LP
Endrin	< 0.0478	0.0478		ug/L		12/02/15 19:30	B5K0674	LP
gamma-BHC	< 0.0478	0.0478		ug/L		12/02/15 19:30	B5K0674	LP
Heptachlor	< 0.0478	0.0478		ug/L		12/02/15 19:30	B5K0674	LP
Heptachlor epoxide	< 0.0478	0.0478		ug/L		12/02/15 19:30	B5K0674	LP
Methoxychlor	< 0.0478	0.0478		ug/L		12/02/15 19:30	B5K0674	LP
Simazine	< 0.478	0.478		ug/L		12/02/15 19:30	B5K0674	LP
Toxaphene	< 1.91	1.91		ug/L		12/02/15 19:30	B5K0674	LP
Surrogate: Decachlorobiphenyl				*Recovery: 59%*	*Limits: 30-135*	*12/02/15 19:30*	*B5K0674*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 46%*	*Limits: 44-124*	*12/02/15 19:30*	*B5K0674*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.478	0.478		ug/L		11/21/15 22:14	B5K0676	PM1
Aroclor 1221	< 0.765	0.765		ug/L		11/21/15 22:14	B5K0676	PM1
Aroclor 1232	< 0.956	0.956		ug/L		11/21/15 22:14	B5K0676	PM1
Aroclor 1242	< 0.956	0.956		ug/L		11/21/15 22:14	B5K0676	PM1
Aroclor 1248	< 0.956	0.956		ug/L		11/21/15 22:14	B5K0676	PM1
Aroclor 1254	< 0.765	0.765		ug/L		11/21/15 22:14	B5K0676	PM1
Aroclor 1260	< 0.478	0.478		ug/L		11/21/15 22:14	B5K0676	PM1
Total PCB	< 0.956	0.956		ug/L		11/21/15 22:14	B5K0676	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 60%*	*Limits: 40-135*	*11/21/15 22:14*	*B5K0676*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 56%*	*Limits: 13-133*	*11/21/15 22:14*	*B5K0676*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/02/15 13:01	B5L0069	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-1
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:00
Matrix: Groundwater
Lab ID: 15K0180-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: E531.1 (Continued)								
Carbofuran	< 2.00	2.00		ug/L		12/02/15 13:01	B5L0069	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L		11/29/15 20:41	B5K0804	JL
2,4-D	< 1.49	1.49		ug/L		11/29/15 20:41	B5K0804	JL
Dinoseb	< 1.49	1.49		ug/L		11/29/15 20:41	B5K0804	JL
Picloram	< 1.49	1.49		ug/L		11/29/15 20:41	B5K0804	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 81%*	*Limits: 37-152*	*11/29/15 20:41*	*B5K0804*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Benzene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/18/15 17:13	B5K0943	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 17:13	B5K0943	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Dichloromethane	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Styrene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/18/15 17:13	B5K0943	XN
Toluene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 17:13	B5K0943	XN
Trichloroethene	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/18/15 17:13	B5K0943	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/18/15 17:13	B5K0943	XN
Surrogate: Dibromofluoromethane				*Recovery: 92%*	*Limits: 80-119*	*11/18/15 17:13*	*B5K0943*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 106%*	*Limits: 81-118*	*11/18/15 17:13*	*B5K0943*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*11/18/15 17:13*	*B5K0943*	*XN*
Surrogate: Toluene-d8				*Recovery: 99%*	*Limits: 89-112*	*11/18/15 17:13*	*B5K0943*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 99%*	*Limits: 85-114*	*11/18/15 17:13*	*B5K0943*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 70-120*	*11/18/15 17:13*	*B5K0943*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-1
Report Date: 12/21/2015
Collection Date: 11/13/2015 09:00
Matrix: Groundwater
Lab ID: 15K0180-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		12/04/15 18:20	B5L0481	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		12/04/15 18:20	B5L0481	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		11/24/15 16:38	B5K1004	MNN
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 134%*	*Limits: 70-130*	*11/24/15 16:38*	*B5K1004*	*MNN*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/02/15 09:15	B5K0906	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 127%*	*Limits: 20-200*	*12/02/15 09:15*	*B5K0906*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.91	4.91		ug/L		12/05/15 02:57	B5K0633	BW1
o-Dichlorobenzene	< 4.91	4.91		ug/L		12/05/15 02:57	B5K0633	BW1
p-Dichlorobenzene	< 4.91	4.91		ug/L		12/05/15 02:57	B5K0633	BW1
Benzo(a)pyrene	< 9.83	9.83		ug/L		12/05/15 02:57	B5K0633	BW1
Di(2-ethylhexyl)phthalate	< 9.83	9.83		ug/L		12/05/15 02:57	B5K0633	BW1
Hexachlorocyclopentadiene	< 24.6	24.6		ug/L		12/05/15 02:57	B5K0633	BW1
Pentachlorophenol	< 98.3	98.3		ug/L		12/05/15 02:57	B5K0633	BW1
Surrogate: 2-Fluorophenol				*Recovery: 38%*	*Limits: 4-108*	*12/05/15 02:57*	*B5K0633*	*BW1*
Surrogate: Phenol-d5				*Recovery: 29%*	*Limits: 1-101*	*12/05/15 02:57*	*B5K0633*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 60%*	*Limits: 23-119*	*12/05/15 02:57*	*B5K0633*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 78%*	*Limits: 28-124*	*12/05/15 02:57*	*B5K0633*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 43%*	*Limits: 11-102*	*12/05/15 02:57*	*B5K0633*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 114%*	*Limits: 79-162*	*12/05/15 02:57*	*B5K0633*	*BW1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**1.7**	1		pCi/L		12/09/15 00:00	15K0180-02	UL
Radium-228	**2.1**	1		pCi/L		12/09/15 00:00	15K0180-02	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		11/23/15 00:00	15K0180-02	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 08:25
Matrix: Groundwater
Lab ID: 15K0180-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**516.3800**			No unit	11/13/15 08:25	B5K0837	PB
Depth to water (feet below land surface)	**5.5600**			No unit	11/13/15 08:25	B5K0837	PB
Depth to water (feet from measuring point)	**7.2600**			No unit	11/13/15 08:25	B5K0837	PB
Elevation of groundwater surface (Feet)	**528.1400**			No unit	11/13/15 08:25	B5K0837	PB
Method: SM2510B							
Specific Conductance	**1260**			uS/cm	11/13/15 08:25	B5K0837	PB
Method: SM2550-B							
Temperature	**56.8**			°F	11/13/15 08:25	B5K0837	PB
Method: SM4500-H							
pH	**7.07**	0.05		pH Units	11/13/15 08:25	B5K0837	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Arsenic	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Barium	**114**	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Beryllium	< 5.00	5.00		ug/L	11/19/15 11:47	B5K0749	AG
Boron	**20100**	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Cadmium	< 5.00	5.00		ug/L	11/19/15 11:47	B5K0749	AG
Calcium	**184**	0.250		mg/L	11/19/15 11:47	B5K0749	AG
Chromium	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Cobalt	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Copper	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Iron	**14100**	250		ug/L	11/19/15 11:47	B5K0749	AG
Lead	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Manganese	**9640**	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Molybdenum	< 0.0500	0.0500		mg/L	11/19/15 11:47	B5K0749	AG
Nickel	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Selenium	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Silver	< 5.00	5.00		ug/L	11/19/15 11:47	B5K0749	AG
Thallium	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Zinc	< 50.0	50.0		ug/L	11/19/15 11:47	B5K0749	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/25/15 13:43	B5K1058	MB1
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**52.1**	3.00		mg/L	11/14/15 06:47	B5K0619	DZ1
Fluoride	< 0.500	0.500		mg/L	11/14/15 06:47	B5K0619	DZ1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 08:25
Matrix: Groundwater
Lab ID: 15K0180-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Nitrogen, Nitrate	< 0.500	0.500		mg/L		11/14/15 06:47	B5K0619	DZ1
Sulfate	**337**	50.0		mg/L		12/01/15 13:51	B5L0005	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**850**	10.0		mg/L		11/19/15 08:30	B5K0826	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/24/15 14:40	B5K1018	LS3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/25/15 12:19	B5K1070	LS3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.489	0.489		ug/L		12/02/15 20:16	B5K0674	LP
Atrazine	< 0.489	0.489		ug/L		12/02/15 20:16	B5K0674	LP
Chlordane	< 0.489	0.489		ug/L		12/02/15 20:16	B5K0674	LP
Endrin	< 0.0489	0.0489		ug/L		12/02/15 20:16	B5K0674	LP
gamma-BHC	< 0.0489	0.0489		ug/L		12/02/15 20:16	B5K0674	LP
Heptachlor	< 0.0489	0.0489		ug/L		12/02/15 20:16	B5K0674	LP
Heptachlor epoxide	< 0.0489	0.0489		ug/L		12/02/15 20:16	B5K0674	LP
Methoxychlor	< 0.0489	0.0489		ug/L		12/02/15 20:16	B5K0674	LP
Simazine	< 0.489	0.489		ug/L		12/02/15 20:16	B5K0674	LP
Toxaphene	< 1.96	1.96		ug/L		12/02/15 20:16	B5K0674	LP
Surrogate: Decachlorobiphenyl				*Recovery: 68%*	*Limits: 30-135*	*12/02/15 20:16*	*B5K0674*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 40%*	*Limits: 44-124*	*12/02/15 20:16*	*B5K0674*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.489	0.489		ug/L		11/21/15 22:43	B5K0676	PM1
Aroclor 1221	< 0.783	0.783		ug/L		11/21/15 22:43	B5K0676	PM1
Aroclor 1232	< 0.978	0.978		ug/L		11/21/15 22:43	B5K0676	PM1
Aroclor 1242	< 0.978	0.978		ug/L		11/21/15 22:43	B5K0676	PM1
Aroclor 1248	< 0.978	0.978		ug/L		11/21/15 22:43	B5K0676	PM1
Aroclor 1254	< 0.783	0.783		ug/L		11/21/15 22:43	B5K0676	PM1
Aroclor 1260	< 0.489	0.489		ug/L		11/21/15 22:43	B5K0676	PM1
Total PCB	< 0.978	0.978		ug/L		11/21/15 22:43	B5K0676	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 58%*	*Limits: 40-135*	*11/21/15 22:43*	*B5K0676*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 13-133*	*11/21/15 22:43*	*B5K0676*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/02/15 13:48	B5L0069	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 08:25
Matrix: Groundwater
Lab ID: 15K0180-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: E531.1 (Continued)								
Carbofuran	< 2.00	2.00		ug/L		12/02/15 13:48	B5L0069	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		11/29/15 21:23	B5K0804	JL
2,4-D	< 1.48	1.48		ug/L		11/29/15 21:23	B5K0804	JL
Dinoseb	< 1.48	1.48		ug/L		11/29/15 21:23	B5K0804	JL
Picloram	< 1.48	1.48		ug/L		11/29/15 21:23	B5K0804	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 83%*	*Limits: 37-152*	*11/29/15 21:23*	*B5K0804*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Benzene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/18/15 17:43	B5K0943	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 17:43	B5K0943	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Dichloromethane	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Styrene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/18/15 17:43	B5K0943	XN
Toluene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 17:43	B5K0943	XN
Trichloroethene	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/18/15 17:43	B5K0943	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/18/15 17:43	B5K0943	XN
Surrogate: Dibromofluoromethane				*Recovery: 90%*	*Limits: 80-119*	*11/18/15 17:43*	*B5K0943*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 108%*	*Limits: 81-118*	*11/18/15 17:43*	*B5K0943*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*11/18/15 17:43*	*B5K0943*	*XN*
Surrogate: Toluene-d8				*Recovery: 99%*	*Limits: 89-112*	*11/18/15 17:43*	*B5K0943*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 103%*	*Limits: 85-114*	*11/18/15 17:43*	*B5K0943*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 104%*	*Limits: 70-120*	*11/18/15 17:43*	*B5K0943*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-3
Report Date: 12/21/2015
Collection Date: 11/13/2015 08:25
Matrix: Groundwater
Lab ID: 15K0180-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		12/04/15 19:22	B5L0481	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		12/04/15 19:22	B5L0481	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		11/24/15 17:17	B5K1004	MNN
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 146%*	*Limits: 70-130*	*11/24/15 17:17*	*B5K1004*	*MNN*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/02/15 05:54	B5K0906	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 123%*	*Limits: 20-200*	*12/02/15 05:54*	*B5K0906*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.84	4.84		ug/L		12/05/15 03:37	B5K0633	BW1
o-Dichlorobenzene	< 4.84	4.84		ug/L		12/05/15 03:37	B5K0633	BW1
p-Dichlorobenzene	< 4.84	4.84		ug/L		12/05/15 03:37	B5K0633	BW1
Benzo(a)pyrene	< 9.68	9.68		ug/L		12/05/15 03:37	B5K0633	BW1
Di(2-ethylhexyl)phthalate	< 9.68	9.68		ug/L		12/05/15 03:37	B5K0633	BW1
Hexachlorocyclopentadiene	< 24.2	24.2		ug/L		12/05/15 03:37	B5K0633	BW1
Pentachlorophenol	< 96.8	96.8		ug/L		12/05/15 03:37	B5K0633	BW1
Surrogate: 2-Fluorophenol				*Recovery: 12%*	*Limits: 4-108*	*12/05/15 03:37*	*B5K0633*	*BW1*
Surrogate: Phenol-d5				*Recovery: 11%*	*Limits: 1-101*	*12/05/15 03:37*	*B5K0633*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 56%*	*Limits: 23-119*	*12/05/15 03:37*	*B5K0633*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 74%*	*Limits: 28-124*	*12/05/15 03:37*	*B5K0633*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 37%*	*Limits: 11-102*	*12/05/15 03:37*	*B5K0633*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 107%*	*Limits: 79-162*	*12/05/15 03:37*	*B5K0633*	*BW1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.21**	1		pCi/L		12/09/15 00:00	15K0180-04	UL
Radium-228	**-0.88**	1		pCi/L		12/09/15 00:00	15K0180-04	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		11/21/15 00:00	15K0180-04	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-4
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:50
Matrix: Groundwater
Lab ID: 15K0180-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**496.4200**			No unit	11/13/15 07:50	B5K0837	PB
Depth to water (feet below land surface)	**6.3500**			No unit	11/13/15 07:50	B5K0837	PB
Depth to water (feet from measuring point)	**11.6500**			No unit	11/13/15 07:50	B5K0837	PB
Elevation of groundwater surface (Feet)	**547.5500**			No unit	11/13/15 07:50	B5K0837	PB
Method: SM2510B							
Specific Conductance	**823**			uS/cm	11/13/15 07:50	B5K0837	PB
Method: SM2550-B							
Temperature	**58.8**			°F	11/13/15 07:50	B5K0837	PB
Method: SM4500-H							
pH	**7.14**	0.05		pH Units	11/13/15 07:50	B5K0837	PB
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Arsenic	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Barium	**355**	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Beryllium	< 5.00	5.00		ug/L	11/19/15 11:48	B5K0749	AG
Boron	**119**	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Cadmium	< 5.00	5.00		ug/L	11/19/15 11:48	B5K0749	AG
Calcium	**125**	0.250		mg/L	11/19/15 11:48	B5K0749	AG
Chromium	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Cobalt	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Copper	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Iron	**12100**	250		ug/L	11/19/15 11:48	B5K0749	AG
Lead	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Manganese	**155**	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Molybdenum	< 0.0500	0.0500		mg/L	11/19/15 11:48	B5K0749	AG
Nickel	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Selenium	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Silver	< 5.00	5.00		ug/L	11/19/15 11:48	B5K0749	AG
Thallium	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Zinc	< 50.0	50.0		ug/L	11/19/15 11:48	B5K0749	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/25/15 13:46	B5K1058	MB1
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**16.7**	3.00		mg/L	11/14/15 07:17	B5K0619	DZ1
Fluoride	< 0.500	0.500		mg/L	11/14/15 07:17	B5K0619	DZ1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-4
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:50
Matrix: Groundwater
Lab ID: 15K0180-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Nitrogen, Nitrate	< 0.500	0.500		mg/L		11/14/15 07:17	B5K0619	DZ1
Sulfate	**6.47**	5.00		mg/L		11/14/15 07:17	B5K0619	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**470**	10.0		mg/L		11/18/15 07:30	B5K0759	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/24/15 14:40	B5K1018	LS3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/25/15 12:19	B5K1070	LS3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.492	0.492		ug/L		12/02/15 21:03	B5K0674	LP
Atrazine	< 0.492	0.492		ug/L		12/02/15 21:03	B5K0674	LP
Chlordane	< 0.492	0.492		ug/L		12/02/15 21:03	B5K0674	LP
Endrin	< 0.0492	0.0492		ug/L		12/02/15 21:03	B5K0674	LP
gamma-BHC	< 0.0492	0.0492		ug/L		12/02/15 21:03	B5K0674	LP
Heptachlor	< 0.0492	0.0492		ug/L		12/02/15 21:03	B5K0674	LP
Heptachlor epoxide	< 0.0492	0.0492		ug/L		12/02/15 21:03	B5K0674	LP
Methoxychlor	< 0.0492	0.0492		ug/L		12/02/15 21:03	B5K0674	LP
Simazine	< 0.492	0.492		ug/L		12/02/15 21:03	B5K0674	LP
Toxaphene	< 1.97	1.97		ug/L		12/02/15 21:03	B5K0674	LP
Surrogate: Decachlorobiphenyl				*Recovery: 95%*	*Limits: 30-135*	*12/02/15 21:03*	*B5K0674*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 46%*	*Limits: 44-124*	*12/02/15 21:03*	*B5K0674*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.492	0.492		ug/L		11/21/15 23:12	B5K0676	PM1
Aroclor 1221	< 0.787	0.787		ug/L		11/21/15 23:12	B5K0676	PM1
Aroclor 1232	< 0.983	0.983		ug/L		11/21/15 23:12	B5K0676	PM1
Aroclor 1242	< 0.983	0.983		ug/L		11/21/15 23:12	B5K0676	PM1
Aroclor 1248	< 0.983	0.983		ug/L		11/21/15 23:12	B5K0676	PM1
Aroclor 1254	< 0.787	0.787		ug/L		11/21/15 23:12	B5K0676	PM1
Aroclor 1260	< 0.492	0.492		ug/L		11/21/15 23:12	B5K0676	PM1
Total PCB	< 0.983	0.983		ug/L		11/21/15 23:12	B5K0676	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 73%*	*Limits: 40-135*	*11/21/15 23:12*	*B5K0676*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 67%*	*Limits: 13-133*	*11/21/15 23:12*	*B5K0676*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/02/15 14:24	B5L0069	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-4
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:50
Matrix: Groundwater
Lab ID: 15K0180-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: E531.1 (Continued)								
Carbofuran	< 2.00	2.00		ug/L		12/02/15 14:24	B5L0069	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L		11/30/15 11:54	B5K0804	JL
2,4-D	< 1.49	1.49		ug/L		11/30/15 11:54	B5K0804	JL
Dinoseb	< 1.49	1.49		ug/L		11/30/15 11:54	B5K0804	JL
Picloram	< 1.49	1.49		ug/L		11/30/15 11:54	B5K0804	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 68%*	*Limits: 37-152*	*11/30/15 11:54*	*B5K0804*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Benzene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/18/15 18:13	B5K0943	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 18:13	B5K0943	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Dichloromethane	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Styrene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/18/15 18:13	B5K0943	XN
Toluene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/18/15 18:13	B5K0943	XN
Trichloroethene	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/18/15 18:13	B5K0943	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/18/15 18:13	B5K0943	XN
Surrogate: Dibromofluoromethane				*Recovery: 89%*	*Limits: 80-119*	*11/18/15 18:13*	*B5K0943*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 108%*	*Limits: 81-118*	*11/18/15 18:13*	*B5K0943*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*11/18/15 18:13*	*B5K0943*	*XN*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 89-112*	*11/18/15 18:13*	*B5K0943*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 85-114*	*11/18/15 18:13*	*B5K0943*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 70-120*	*11/18/15 18:13*	*B5K0943*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-4
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:50
Matrix: Groundwater
Lab ID: 15K0180-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		12/04/15 19:54	B5L0481	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		12/04/15 19:54	B5L0481	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		11/24/15 18:34	B5K1004	MNN
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 156%*	*Limits: 70-130*	*11/24/15 18:34*	*B5K1004*	*MNN*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/02/15 04:34	B5K0906	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 115%*	*Limits: 20-200*	*12/02/15 04:34*	*B5K0906*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.89	4.89		ug/L		12/05/15 04:17	B5K0633	BW1
o-Dichlorobenzene	< 4.89	4.89		ug/L		12/05/15 04:17	B5K0633	BW1
p-Dichlorobenzene	< 4.89	4.89		ug/L		12/05/15 04:17	B5K0633	BW1
Benzo(a)pyrene	< 9.78	9.78		ug/L		12/05/15 04:17	B5K0633	BW1
Di(2-ethylhexyl)phthalate	< 9.78	9.78		ug/L		12/05/15 04:17	B5K0633	BW1
Hexachlorocyclopentadiene	< 24.5	24.5		ug/L		12/05/15 04:17	B5K0633	BW1
Pentachlorophenol	< 97.8	97.8		ug/L		12/05/15 04:17	B5K0633	BW1
Surrogate: 2-Fluorophenol				*Recovery: 38%*	*Limits: 4-108*	*12/05/15 04:17*	*B5K0633*	*BW1*
Surrogate: Phenol-d5				*Recovery: 26%*	*Limits: 1-101*	*12/05/15 04:17*	*B5K0633*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 61%*	*Limits: 23-119*	*12/05/15 04:17*	*B5K0633*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 77%*	*Limits: 28-124*	*12/05/15 04:17*	*B5K0633*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 46%*	*Limits: 11-102*	*12/05/15 04:17*	*B5K0633*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 110%*	*Limits: 79-162*	*12/05/15 04:17*	*B5K0633*	*BW1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.55**	1		pCi/L		12/09/15 00:00	15K0180-05	UL
Radium-228	**0.28**	1		pCi/L		12/09/15 00:00	15K0180-05	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		11/21/15 00:00	15K0180-05	TEST

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-5
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:55
Matrix: Groundwater
Lab ID: 15K0180-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: Non-Analytical Data							
Bottom of well elevation (Feet)	**552.7100**			No unit	11/13/15 07:55	B5K0837	CD
Depth to water (feet below land surface)	**17.7000**			No unit	11/13/15 07:55	B5K0837	CD
Depth to water (feet from measuring point)	**20.0000**			No unit	11/13/15 07:55	B5K0837	CD
Elevation of groundwater surface (Feet)	**563.9000**			No unit	11/13/15 07:55	B5K0837	CD
Method: SM2510B							
Specific Conductance	**563**			uS/cm	11/13/15 07:55	B5K0837	CD
Method: SM2550-B							
Temperature	**54.6**			°F	11/13/15 07:55	B5K0837	CD
Method: SM4500-H							
pH	**7.51**	0.05		pH Units	11/13/15 07:55	B5K0837	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Arsenic	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Barium	**158**	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Beryllium	< 5.00	5.00		ug/L	11/19/15 11:50	B5K0749	AG
Boron	**53.0**	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Cadmium	< 5.00	5.00		ug/L	11/19/15 11:50	B5K0749	AG
Calcium	**124**	0.250		mg/L	11/19/15 11:50	B5K0749	AG
Chromium	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Cobalt	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Copper	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Iron	**31100**	250		ug/L	11/19/15 11:50	B5K0749	AG
Lead	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Manganese	**599**	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Molybdenum	< 0.0500	0.0500		mg/L	11/19/15 11:50	B5K0749	AG
Nickel	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Selenium	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Silver	< 5.00	5.00		ug/L	11/19/15 11:50	B5K0749	AG
Thallium	< 50.0	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Zinc	**89.4**	50.0		ug/L	11/19/15 11:50	B5K0749	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/25/15 13:48	B5K1058	MB1
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**3.27**	3.00		mg/L	11/14/15 09:20	B5K0619	DZ1
Fluoride	**0.880**	0.500		mg/L	11/14/15 09:20	B5K0619	DZ1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-5
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:55
Matrix: Groundwater
Lab ID: 15K0180-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Nitrogen, Nitrate	**1.63**	0.500		mg/L		11/14/15 09:20	B5K0619	DZ1
Sulfate	**58.8**	5.00		mg/L		11/14/15 09:20	B5K0619	DZ1
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**290**	10.0		mg/L		11/18/15 07:30	B5K0759	TB2
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/24/15 14:41	B5K1018	LS3
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	**0.0124**	0.0100		mg/L		11/25/15 12:19	B5K1070	LS3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.488	0.488		ug/L		12/02/15 21:49	B5K0674	LP
Atrazine	< 0.488	0.488		ug/L		12/02/15 21:49	B5K0674	LP
Chlordane	< 0.488	0.488		ug/L		12/02/15 21:49	B5K0674	LP
Endrin	< 0.0488	0.0488		ug/L		12/02/15 21:49	B5K0674	LP
gamma-BHC	< 0.0488	0.0488		ug/L		12/02/15 21:49	B5K0674	LP
Heptachlor	< 0.0488	0.0488		ug/L		12/02/15 21:49	B5K0674	LP
Heptachlor epoxide	< 0.0488	0.0488		ug/L		12/02/15 21:49	B5K0674	LP
Methoxychlor	< 0.0488	0.0488		ug/L		12/02/15 21:49	B5K0674	LP
Simazine	< 0.488	0.488		ug/L		12/02/15 21:49	B5K0674	LP
Toxaphene	< 1.95	1.95		ug/L		12/02/15 21:49	B5K0674	LP
Surrogate: Decachlorobiphenyl				*Recovery: 57%*	*Limits: 30-135*	*12/02/15 21:49*	*B5K0674*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 31%*	*Limits: 44-124*	*12/02/15 21:49*	*B5K0674*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.488	0.488		ug/L		11/21/15 23:41	B5K0676	PM1
Aroclor 1221	< 0.781	0.781		ug/L		11/21/15 23:41	B5K0676	PM1
Aroclor 1232	< 0.976	0.976		ug/L		11/21/15 23:41	B5K0676	PM1
Aroclor 1242	< 0.976	0.976		ug/L		11/21/15 23:41	B5K0676	PM1
Aroclor 1248	< 0.976	0.976		ug/L		11/21/15 23:41	B5K0676	PM1
Aroclor 1254	< 0.781	0.781		ug/L		11/21/15 23:41	B5K0676	PM1
Aroclor 1260	< 0.488	0.488		ug/L		11/21/15 23:41	B5K0676	PM1
Total PCB	< 0.976	0.976		ug/L		11/21/15 23:41	B5K0676	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 52%*	*Limits: 40-135*	*11/21/15 23:41*	*B5K0676*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 13-133*	*11/21/15 23:41*	*B5K0676*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		12/02/15 14:59	B5L0069	MNN

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-5
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:55
Matrix: Groundwater
Lab ID: 15K0180-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Carbamates by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: E531.1 (Continued)								
Carbofuran	< 2.00	2.00		ug/L		12/02/15 14:59	B5L0069	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.46	1.46		ug/L		11/30/15 12:36	B5K0804	JL
2,4-D	< 1.46	1.46		ug/L		11/30/15 12:36	B5K0804	JL
Dinoseb	< 1.46	1.46		ug/L		11/30/15 12:36	B5K0804	JL
Picloram	< 1.46	1.46		ug/L		11/30/15 12:36	B5K0804	JL
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 84%*	*Limits: 37-152*	*11/30/15 12:36*	*B5K0804*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		11/18/15 13:41	B5K0943	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Benzene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		11/24/15 10:25	B5K1086	XN
Chlorobenzene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/24/15 10:25	B5K1086	XN
Ethylbenzene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Dichloromethane	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Styrene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Tetrachloroethene	< 4.00	4.00		ug/L		11/24/15 10:25	B5K1086	XN
Toluene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		11/24/15 10:25	B5K1086	XN
Trichloroethene	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/24/15 10:25	B5K1086	XN
Xylenes, Total	< 8.00	8.00		ug/L		11/24/15 10:25	B5K1086	XN
Surrogate: Dibromofluoromethane				*Recovery: 107%*	*Limits: 80-119*	*11/24/15 10:25*	*B5K1086*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 112%*	*Limits: 81-118*	*11/24/15 10:25*	*B5K1086*	*XN*
Surrogate: Fluorobenzene				*Recovery: 103%*	*Limits: 80-116*	*11/24/15 10:25*	*B5K1086*	*XN*
Surrogate: Toluene-d8				*Recovery: 99%*	*Limits: 89-112*	*11/24/15 10:25*	*B5K1086*	*XN*
Surrogate: 4-Bromofluorobenzene			*S*	*Recovery: 75%*	*Limits: 85-114*	*11/24/15 10:25*	*B5K1086*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 80%*	*Limits: 70-120*	*11/24/15 10:25*	*B5K1086*	*XN*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Client Sample ID: AP-5
Report Date: 12/21/2015
Collection Date: 11/13/2015 07:55
Matrix: Groundwater
Lab ID: 15K0180-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		12/04/15 20:25	B5L0481	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		12/04/15 20:25	B5L0481	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		11/24/15 14:10	B5K1004	MNN
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 138%*	*Limits: 70-130*	*11/24/15 14:10*	*B5K1004*	*MNN*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/02/15 09:55	B5K0906	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 117%*	*Limits: 20-200*	*12/02/15 09:55*	*B5K0906*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.96	4.96		ug/L		12/05/15 04:57	B5K0633	BW1
o-Dichlorobenzene	< 4.96	4.96		ug/L		12/05/15 04:57	B5K0633	BW1
p-Dichlorobenzene	< 4.96	4.96		ug/L		12/05/15 04:57	B5K0633	BW1
Benzo(a)pyrene	< 9.92	9.92		ug/L		12/05/15 04:57	B5K0633	BW1
Di(2-ethylhexyl)phthalate	< 9.92	9.92		ug/L		12/05/15 04:57	B5K0633	BW1
Hexachlorocyclopentadiene	< 24.8	24.8		ug/L		12/05/15 04:57	B5K0633	BW1
Pentachlorophenol	< 99.2	99.2		ug/L		12/05/15 04:57	B5K0633	BW1
Surrogate: 2-Fluorophenol				*Recovery: 38%*	*Limits: 4-108*	*12/05/15 04:57*	*B5K0633*	*BW1*
Surrogate: Phenol-d5				*Recovery: 23%*	*Limits: 1-101*	*12/05/15 04:57*	*B5K0633*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 57%*	*Limits: 23-119*	*12/05/15 04:57*	*B5K0633*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 79%*	*Limits: 28-124*	*12/05/15 04:57*	*B5K0633*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 39%*	*Limits: 11-102*	*12/05/15 04:57*	*B5K0633*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 110%*	*Limits: 79-162*	*12/05/15 04:57*	*B5K0633*	*BW1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.66**	1		pCi/L		12/09/15 00:00	15K0180-06	UL
Radium-228	**1.5**	1		pCi/L		12/09/15 00:00	15K0180-06	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.25	0.25		mg/L		11/21/15 00:00	15K0180-06	TEST

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Dates Report

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15K0180-01	AW-3	11/13/15	Groundwater	Subcontracted Analyses		11/23/15 00:00	12/09/15 00:00	15K0180-01	
				Subcontracted Analyses		11/21/15 00:00	11/21/15 00:00		
				Sulfate (SO4), Anions by Ion Chromatography		11/13/15 11:22	11/14/15 05:46	B5K0619	S5K0299
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/13/15 11:22	11/14/15 05:46		
				Fluoride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 05:46		
				Chloride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 05:46		
				Semivolatile Organic Compounds by GC/MS		11/16/15 09:00	12/05/15 02:17	B5K0633	S5L0105
				Organochlorine Pesticides by GC/ECD		11/17/15 09:00	12/02/15 18:43	B5K0674	S5L0195
				Polychlorinated Biphenyls by GC/ECD		11/17/15 09:00	11/21/15 21:44	B5K0676	S5K0467
				Nickel, Total ICP-MS		11/17/15 15:10	11/19/15 11:43	B5K0749	S5K0412
				Silver, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Zinc, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Thallium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Selenium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Lead, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Molybdenum, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Manganese, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Iron, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Boron, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Chromium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Cobalt, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Cadmium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Calcium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Arsenic, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Beryllium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Barium, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Copper, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Antimony, Total ICP-MS		11/17/15 15:10	11/19/15 11:43		
				Herbicides by HPLC		11/18/15 08:30	11/29/15 19:59	B5K0804	S5L0014
				Solids, Total Dissolved (TDS)		11/19/15 08:30	11/19/15 08:30	B5K0826	
				Groundwater Parameters		11/13/15 09:45	11/13/15 09:45	B5K0837	
				pH, Tested On Site		11/13/15 09:45	11/13/15 09:45		
				Temperature in F, Field		11/13/15 09:45	11/13/15 09:45		
				Conductance, Field		11/13/15 09:45	11/13/15 09:45		
				EPA 548.1 Endothall		11/19/15 12:30	12/02/15 08:35	B5K0906	S5L0032
				Volatile Organic Compounds by GC/MS		11/18/15 11:55	11/18/15 16:43	B5K0943	S5K0456
				EPA 552.1 Dalapon		11/23/15 16:36	11/24/15 15:59	B5K1004	S5L0162
				Phenol, Total		11/24/15 07:45	11/24/15 13:40	B5K1011	S5K0497
				Cyanide, Total		11/24/15 08:45	11/24/15 14:40	B5K1018	S5K0498
				Mercury, Total CCVA		11/25/15 07:00	11/25/15 13:19	B5K1058	S5K0522
				EPA 531.1 Carbamates		12/02/15 10:12	12/02/15 12:22	B5L0069	S5L0012

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15K0180-01	AW-3	11/13/15	Groundwater	EPA 504.1 DBCP/EDB		12/04/15 10:00	12/04/15 17:17	B5L0481	S5L0209
15K0180-02	AP-1	11/13/15		Subcontracted Analyses		11/23/15 00:00	11/23/15 00:00	15K0180-02	
				Subcontracted Analyses		11/23/15 00:00	12/09/15 00:00		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/13/15 11:22	11/14/15 06:17	B5K0619	S5K0299
				Fluoride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 06:17		
				Chloride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 06:17		
				Semivolatile Organic Compounds by GC/MS		11/16/15 09:00	12/05/15 02:57	B5K0633	S5L0105
				Organochlorine Pesticides by GC/ECD		11/17/15 09:00	12/02/15 19:30	B5K0674	S5L0195
				Polychlorinated Biphenyls by GC/ECD		11/17/15 09:00	11/21/15 22:14	B5K0676	S5K0467
				Silver, Total ICP-MS		11/17/15 15:10	11/19/15 11:45	B5K0749	S5K0412
				Iron, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Zinc, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Thallium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Selenium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Antimony, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Lead, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Nickel, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Molybdenum, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Manganese, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Chromium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Cobalt, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Cadmium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Calcium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Beryllium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Barium, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Arsenic, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Boron, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Copper, Total ICP-MS		11/17/15 15:10	11/19/15 11:45		
				Herbicides by HPLC		11/18/15 08:30	11/29/15 20:41	B5K0804	S5L0014
				Solids, Total Dissolved (TDS)		11/19/15 08:30	11/19/15 08:30	B5K0826	
				Conductance, Field		11/13/15 09:00	11/13/15 09:00	B5K0837	
				Groundwater Parameters		11/13/15 09:00	11/13/15 09:00		
				Temperature in F, Field		11/13/15 09:00	11/13/15 09:00		
				pH, Tested On Site		11/13/15 09:00	11/13/15 09:00		
				EPA 548.1 Endothall		11/19/15 12:30	12/02/15 09:15	B5K0906	S5L0032
				Volatile Organic Compounds by GC/MS		11/18/15 11:55	11/18/15 17:13	B5K0943	S5K0456
				EPA 552.1 Dalapon		11/23/15 16:36	11/24/15 16:38	B5K1004	S5L0162
				Phenol, Total		11/24/15 07:45	11/24/15 13:40	B5K1011	S5K0497
				Cyanide, Total		11/24/15 08:45	11/24/15 14:40	B5K1018	S5K0498
				Mercury, Total CCVA		11/25/15 07:00	11/25/15 13:35	B5K1058	S5K0522
				Sulfate (SO4), Anions by Ion Chromatography		11/25/15 09:53	11/26/15 01:28	B5K1096	S5K0536

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15K0180-02	AP-1	11/13/15	Groundwater	EPA 531.1 Carbamates		12/02/15 10:12	12/02/15 13:01	B5L0069	S5L0012
				EPA 504.1 DBCP/EDB		12/04/15 10:00	12/04/15 18:20	B5L0481	S5L0209
15K0180-04	AP-3	11/13/15		Subcontracted Analyses		11/21/15 00:00	11/21/15 00:00	15K0180-04	
				Subcontracted Analyses		11/23/15 00:00	12/09/15 00:00		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/13/15 11:22	11/14/15 06:47	B5K0619	S5K0299
				Fluoride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 06:47		
				Chloride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 06:47		
				Semivolatile Organic Compounds by GC/MS		11/16/15 09:00	12/05/15 03:37	B5K0633	S5L0105
				Organochlorine Pesticides by GC/ECD		11/17/15 09:00	12/02/15 20:16	B5K0674	S5L0195
				Polychlorinated Biphenyls by GC/ECD		11/17/15 09:00	11/21/15 22:43	B5K0676	S5K0467
				Barium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47	B5K0749	S5K0412
				Beryllium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Nickel, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Boron, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Silver, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Arsenic, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Cadmium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Cobalt, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Chromium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Copper, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Iron, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Molybdenum, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Calcium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Lead, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Antimony, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Selenium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Thallium, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Zinc, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Manganese, Total ICP-MS		11/17/15 15:10	11/19/15 11:47		
				Herbicides by HPLC		11/18/15 08:30	11/29/15 21:23	B5K0804	S5L0014
				Solids, Total Dissolved (TDS)		11/19/15 08:30	11/19/15 08:30	B5K0826	
				Groundwater Parameters		11/13/15 08:25	11/13/15 08:25	B5K0837	
				Temperature in F, Field		11/13/15 08:25	11/13/15 08:25		
				pH, Tested On Site		11/13/15 08:25	11/13/15 08:25		
				Conductance, Field		11/13/15 08:25	11/13/15 08:25		
				EPA 548.1 Endothall		11/19/15 12:30	12/02/15 05:54	B5K0906	S5L0032
				Volatile Organic Compounds by GC/MS		11/18/15 11:55	11/18/15 17:43	B5K0943	S5K0456
				EPA 552.1 Dalapon		11/23/15 16:36	11/24/15 17:17	B5K1004	S5L0162
				Cyanide, Total		11/24/15 08:45	11/24/15 14:40	B5K1018	S5K0498
				Mercury, Total CCVA		11/25/15 07:00	11/25/15 13:43	B5K1058	S5K0522
				Phenol, Total		11/25/15 07:45	11/25/15 12:19	B5K1070	S5K0511

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15K0180-04	AP-3	11/13/15	Groundwater	Sulfate (SO4), Anions by Ion Chromatography		12/01/15 08:49	12/01/15 13:51	B5L0005	S5L0025
				EPA 531.1 Carbamates		12/02/15 10:12	12/02/15 13:48	B5L0069	S5L0012
				EPA 504.1 DBCP/EDB		12/04/15 10:00	12/04/15 19:22	B5L0481	S5L0209
15K0180-05	AP-4	11/13/15		Subcontracted Analyses		11/21/15 00:00	11/21/15 00:00	15K0180-05	
				Subcontracted Analyses		11/23/15 00:00	12/09/15 00:00		
				Fluoride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 07:17	B5K0619	S5K0299
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/13/15 11:22	11/14/15 07:17		
				Sulfate (SO4), Anions by Ion Chromatography		11/13/15 11:22	11/14/15 07:17		
				Chloride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 07:17		
				Semivolatile Organic Compounds by GC/MS		11/16/15 09:00	12/05/15 04:17	B5K0633	S5L0105
				Organochlorine Pesticides by GC/ECD		11/17/15 09:00	12/02/15 21:03	B5K0674	S5L0195
				Polychlorinated Biphenyls by GC/ECD		11/17/15 09:00	11/21/15 23:12	B5K0676	S5K0467
				Cobalt, Total ICP-MS		11/17/15 15:10	11/19/15 11:48	B5K0749	S5K0412
				Zinc, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Thallium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Selenium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Antimony, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Lead, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Nickel, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Molybdenum, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Manganese, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Iron, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Chromium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Cadmium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Calcium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Beryllium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Barium, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Boron, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Arsenic, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Silver, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Copper, Total ICP-MS		11/17/15 15:10	11/19/15 11:48		
				Solids, Total Dissolved (TDS)		11/18/15 07:30	11/18/15 07:30	B5K0759	
				Herbicides by HPLC		11/18/15 08:30	11/30/15 11:54	B5K0804	S5L0014
				pH, Tested On Site		11/13/15 07:50	11/13/15 07:50	B5K0837	
				Temperature in F, Field		11/13/15 07:50	11/13/15 07:50		
				Groundwater Parameters		11/13/15 07:50	11/13/15 07:50		
				Conductance, Field		11/13/15 07:50	11/13/15 07:50		
				EPA 548.1 Endothall		11/19/15 12:30	12/02/15 04:34	B5K0906	S5L0032
				Volatile Organic Compounds by GC/MS		11/18/15 11:55	11/18/15 18:13	B5K0943	S5K0456
				EPA 552.1 Dalapon		11/23/15 16:36	11/24/15 18:34	B5K1004	S5L0162
				Cyanide, Total		11/24/15 08:45	11/24/15 14:40	B5K1018	S5K0498

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15K0180-05	AP-4	11/13/15	Groundwater	Mercury, Total CCVA		11/25/15 07:00	11/25/15 13:46	B5K1058	S5K0522
				Phenol, Total		11/25/15 07:45	11/25/15 12:19	B5K1070	S5K0511
				EPA 531.1 Carbamates		12/02/15 10:12	12/02/15 14:24	B5L0069	S5L0012
				EPA 504.1 DBCP/EDB		12/04/15 10:00	12/04/15 19:54	B5L0481	S5L0209
15K0180-06	AP-5	11/13/15		Subcontracted Analyses		11/23/15 00:00	12/09/15 00:00	15K0180-06	
				Subcontracted Analyses		11/21/15 00:00	11/21/15 00:00		
				Fluoride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 09:20	B5K0619	S5K0299
				Sulfate (SO4), Anions by Ion Chromatography		11/13/15 11:22	11/14/15 09:20		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/13/15 11:22	11/14/15 09:20		
				Chloride, Anions by Ion Chromatography		11/13/15 11:22	11/14/15 09:20		
				Semivolatile Organic Compounds by GC/MS		11/16/15 09:00	12/05/15 04:57	B5K0633	S5L0105
				Organochlorine Pesticides by GC/ECD		11/17/15 09:00	12/02/15 21:49	B5K0674	S5L0195
				Polychlorinated Biphenyls by GC/ECD		11/17/15 09:00	11/21/15 23:41	B5K0676	S5K0467
				Selenium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50	B5K0749	S5K0412
				Manganese, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Molybdenum, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Nickel, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Antimony, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Thallium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Calcium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Zinc, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Iron, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Lead, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Copper, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Chromium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Cadmium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Beryllium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Barium, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Boron, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Arsenic, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Silver, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Cobalt, Total ICP-MS		11/17/15 15:10	11/19/15 11:50		
				Solids, Total Dissolved (TDS)		11/18/15 07:30	11/18/15 07:30	B5K0759	
				Herbicides by HPLC		11/18/15 08:30	11/30/15 12:36	B5K0804	S5L0014
				Temperature in F, Field		11/13/15 07:55	11/13/15 07:55	B5K0837	
				pH, Tested On Site		11/13/15 07:55	11/13/15 07:55		
				Conductance, Field		11/13/15 07:55	11/13/15 07:55		
				Groundwater Parameters		11/13/15 07:55	11/13/15 07:55		
				EPA 548.1 Endothall		11/19/15 12:30	12/02/15 09:55	B5K0906	S5L0032
				Volatile Organic Compounds by GC/MS		11/18/15 11:55	11/18/15 13:41	B5K0943	S5K0456
				EPA 552.1 Dalapon		11/23/15 16:36	11/24/15 14:10	B5K1004	S5L0162

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
15K0180-06	AP-5	11/13/15	Groundwater	Cyanide, Total		11/24/15 08:45	11/24/15 14:41	B5K1018	S5K0498
				Mercury, Total CCVA		11/25/15 07:00	11/25/15 13:48	B5K1058	S5K0522
				Phenol, Total		11/25/15 07:45	11/25/15 12:19	B5K1070	S5K0511
				Volatile Organic Compounds by GC/MS		11/23/15 15:20	11/24/15 10:25	B5K1086	S5K0520
				EPA 531.1 Carbamates		12/02/15 10:12	12/02/15 14:59	B5L0069	S5L0012
				EPA 504.1 DBCP/EDB		12/04/15 10:00	12/04/15 20:25	B5L0481	S5L0209

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Quality Control

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0749 - SW3015										
Blank (B5K0749-BLK1)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 11:37*			
Boron	< 25.0	25.0	ug/L							
Blank (B5K0749-BLK2)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/19/2015 12:39*			
Antimony	< 25.0	25.0	ug/L							
Arsenic	< 25.0	25.0	ug/L							
Barium	< 25.0	25.0	ug/L							
Beryllium	< 2.50	2.50	ug/L							
Boron	< 25.0	25.0	ug/L							
Cadmium	< 2.50	2.50	ug/L							
Calcium	< 0.125	0.125	mg/L							
Chromium	< 25.0	25.0	ug/L							
Cobalt	< 25.0	25.0	ug/L							
Copper	< 25.0	25.0	ug/L							
Iron	< 125	125	ug/L							
Lead	< 25.0	25.0	ug/L							
Manganese	< 25.0	25.0	ug/L							
Molybdenum	< 0.0250	0.0250	mg/L							
Nickel	< 25.0	25.0	ug/L							
Selenium	< 25.0	25.0	ug/L							
Silver	< 2.50	2.50	ug/L							
Thallium	< 25.0	25.0	ug/L							
Zinc	< 25.0	25.0	ug/L							
LCS (B5K0749-BS1)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 11:49*			
Boron	618	25.0	ug/L	625		98.9	73-130			
LCS (B5K0749-BS2)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/19/2015 11:34*			
Antimony	1200	25.0	ug/L	1250		96.1	85-117			
Arsenic	1190	25.0	ug/L	1250		95.0	84-116			
Barium	1380	25.0	ug/L	1250		111	86-114			
Beryllium	118	2.50	ug/L	125		94.7	83-121			
Boron	620	25.0	ug/L	625		99.2	73-130			
Cadmium	109	2.50	ug/L	125		87.2	87-115			
Calcium	6.41	0.125	mg/L	6.25		103	87-118			
Chromium	1330	25.0	ug/L	1250		106	85-116			
Cobalt	1270	25.0	ug/L	1250		101	86-115			
Copper	1300	25.0	ug/L	1250		104	85-118			
Iron	2630	125	ug/L	2500		105	87-118			
Lead	1340	25.0	ug/L	1250		107	88-115			
Manganese	1320	25.0	ug/L	1250		106	87-115			
Molybdenum	1.25	0.0250	mg/L	1.25		100	83-115			
Nickel	1320	25.0	ug/L	1250		106	85-117			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0749 - SW3015 *(Continued)*										
LCS (B5K0749-BS2) (Continued)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/19/2015 11:34*			
Selenium	1090	25.0	ug/L	1250		87.6	80-120			
Silver	114	2.50	ug/L	125		91.2	85-116			
Thallium	1330	25.0	ug/L	1250		106	82-116			
Zinc	1130	25.0	ug/L	1250		90.6	83-119			
Serial Dilution (B5K0749-DUP1)		**Source: 15K0179-09**		*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 12:17*			
Boron	6140	250	ug/L		7250			16.6	20	
MRL Check (B5K0749-MRL1)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 11:50*			
Boron	19.4	25.0	ug/L	15.6		124	70-130			
MRL Check (B5K0749-MRL2)				*Prepared: 11/17/2015 15:10*			*Analyzed: 11/19/2015 11:39*			
Antimony	26.6	25.0	ug/L	31.2		85.0	70-130			
Arsenic	31.3	25.0	ug/L	31.2		100	70-130			
Barium	33.9	25.0	ug/L	31.2		109	70-130			
Beryllium	3.54	2.50	ug/L	3.12		113	70-130			
Boron	19.2	25.0	ug/L	15.6		123	70-130			
Cadmium	2.91	2.50	ug/L	3.12		93.1	70-130			
Calcium	0.170	0.125	mg/L	0.125		136	70-130			S
Chromium	34.3	25.0	ug/L	31.2		110	70-130			
Cobalt	24.7	25.0	ug/L	25.0		98.6	70-130			
Copper	34.5	25.0	ug/L	31.2		110	70-130			
Iron	90.9	125	ug/L	62.5		145	70-130			S
Lead	30.5	25.0	ug/L	31.2		97.6	70-130			
Manganese	33.2	25.0	ug/L	31.2		106	70-130			
Molybdenum	0.0252	0.0250	mg/L	0.0250		101	70-130			
Nickel	34.0	25.0	ug/L	31.2		109	70-130			
Selenium	29.9	25.0	ug/L	31.2		95.8	70-130			
Silver	3.16	2.50	ug/L	3.12		101	70-130			
Thallium	30.5	25.0	ug/L	31.2		97.6	70-130			
Zinc	37.1	25.0	ug/L	31.2		119	70-130			
Matrix Spike (B5K0749-MS1)		**Source: 15K0179-09**		*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 12:12*			
Boron	7240	50.0	ug/L	625	7250	NR	75-125			S
Matrix Spike Dup (B5K0749-MSD1)		**Source: 15K0179-09**		*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 12:14*			
Boron	7130	50.0	ug/L	625	7250	NR	75-125	1.52	20	S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0749 - SW3015 *(Continued)*										
Post Spike (B5K0749-PS1)		**Source: 15K0179-09**		*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 12:16*			
Boron	7050	50.0	ug/L	625	7250	NR	80-120			S
Post Spike (B5K0749-PS2)		**Source: 15K0179-09RE1**		*Prepared: 11/17/2015 15:10*			*Analyzed: 11/18/2015 12:26*			
Boron	13400	500	ug/L	6250	9090	68.7	80-120			S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K1058										
Blank (B5K1058-BLK1)				*Prepared: 11/25/2015 07:00*			*Analyzed: 11/25/2015 13:12*			
Mercury	< 0.25	0.25	ug/L							
LCS (B5K1058-BS1)				*Prepared: 11/25/2015 07:00*			*Analyzed: 11/25/2015 13:14*			
Mercury	4.83	0.25	ug/L	5.00		96.6	82-119			
MRL Check (B5K1058-MRL1)				*Prepared: 11/25/2015 07:00*			*Analyzed: 11/25/2015 12:31*			
Mercury	0.30	0.25	ug/L	0.250		121	70-130			
Matrix Spike (B5K1058-MS1)		**Source: 15K0180-02**		*Prepared: 11/25/2015 07:00*			*Analyzed: 11/25/2015 13:37*			
Mercury	3.91	0.50	ug/L	4.00	ND	97.7	75-125			
Matrix Spike Dup (B5K1058-MSD1)		**Source: 15K0180-02**		*Prepared: 11/25/2015 07:00*			*Analyzed: 11/25/2015 13:39*			
Mercury	4.26	0.50	ug/L	4.00	ND	107	75-125	8.67	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0619										
Blank (B5K0619-BLK1)				*Prepared: 11/13/2015 11:22*		*Analyzed: 11/13/2015 19:00*				
Chloride	< 0.300	0.300	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B5K0619-BS1)				*Prepared: 11/13/2015 11:22*		*Analyzed: 11/13/2015 19:35*				
Chloride	0.143	0.300	mg/L	0.200		71.5	87-111			S
Fluoride	0.115	0.0500	mg/L	0.200		57.5	88-112			S
Nitrogen, Nitrate	0.0570	0.0500	mg/L	0.0904		63.1	88-111			S
Sulfate	0.248	0.500	mg/L	0.400		62.0	87-112			S
LCS (B5K0619-BS2)				*Prepared: 11/13/2015 11:22*		*Analyzed: 11/13/2015 20:06*				
Chloride	5.86	0.300	mg/L	5.00		117	87-111			S
Fluoride	5.78	0.0500	mg/L	5.00		116	88-112			S
Nitrogen, Nitrate	2.52	0.0500	mg/L	2.26		111	88-111			S
Sulfate	11.3	0.500	mg/L	10.0		113	87-112			S
Matrix Spike (B5K0619-MS1)		**Source: 15L0060-02**		*Prepared: 11/13/2015 11:22*		*Analyzed: 11/13/2015 21:07*				
Chloride	446	3.00	mg/L	25.0	428	72.6	80-120			S
Fluoride	29.7	0.500	mg/L	25.0	1.27	114	80-120			
Nitrogen, Nitrate	27.6	0.500	mg/L	25.0	ND	110	80-120			
Sulfate	26.4	5.00	mg/L	25.0	ND	106	80-120			
Matrix Spike Dup (B5K0619-MSD1)		**Source: 15L0060-02**		*Prepared: 11/13/2015 11:22*		*Analyzed: 11/13/2015 21:38*				
Chloride	445	3.00	mg/L	25.0	428	68.1	80-120	0.251	20	S
Fluoride	29.7	0.500	mg/L	25.0	1.27	114	80-120	0.0673	20	
Nitrogen, Nitrate	27.6	0.500	mg/L	25.0	ND	110	80-120	0.00	20	
Sulfate	26.4	5.00	mg/L	25.0	ND	106	80-120	0.0378	20	
Batch: B5K1096										
Blank (B5K1096-BLK1)				*Prepared: 11/25/2015 09:53*		*Analyzed: 11/25/2015 14:17*				
Sulfate	< 0.500	0.500	mg/L							
LCS (B5K1096-BS1)				*Prepared: 11/25/2015 09:53*		*Analyzed: 11/25/2015 14:48*				
Sulfate	0.415	0.500	mg/L	0.400		104	87-112			
LCS (B5K1096-BS2)				*Prepared: 11/25/2015 09:53*		*Analyzed: 11/25/2015 15:18*				
Sulfate	8.70	0.500	mg/L	10.0		87.0	87-112			S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K1096 *(Continued)*										
Matrix Spike (B5K1096-MS1)		**Source: 15K0799-01**		*Prepared: 11/25/2015 09:53*			*Analyzed: 11/25/2015 22:55*			
Sulfate	27.2	5.00	mg/L	25.0	ND	109	80-120			
Matrix Spike Dup (B5K1096-MSD1)		**Source: 15K0799-01**		*Prepared: 11/25/2015 09:53*			*Analyzed: 11/25/2015 23:26*			
Sulfate	27.2	5.00	mg/L	25.0	ND	109	80-120	0.0367	20	
Batch: B5L0005										
Blank (B5L0005-BLK1)							*Prepared: 12/01/2015 08:45*	*Analyzed: 12/01/2015 08:45*		
Sulfate	< 0.500	0.500	mg/L							
LCS (B5L0005-BS1)							*Prepared: 12/01/2015 08:45*	*Analyzed: 12/01/2015 09:13*		
Sulfate	0.412	0.500	mg/L	0.400		103	87-112			
LCS (B5L0005-BS2)							*Prepared: 12/01/2015 08:45*	*Analyzed: 12/01/2015 09:41*		
Sulfate	9.59	0.500	mg/L	10.0		95.9	87-112			
Matrix Spike (B5L0005-MS1)		**Source: 15K0748-02**		*Prepared: 12/01/2015 08:45*			*Analyzed: 12/01/2015 20:21*			
Sulfate	50.4	5.00	mg/L	25.0	22.4	112	80-120			
Matrix Spike Dup (B5L0005-MSD1)		**Source: 15K0748-02**		*Prepared: 12/01/2015 08:45*			*Analyzed: 12/01/2015 20:48*			
Sulfate	50.4	5.00	mg/L	25.0	22.4	112	80-120	0.137	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0759										
Blank (B5K0759-BLK1)				*Prepared: 11/18/2015 07:30*			*Analyzed: 11/18/2015 07:30*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B5K0759-BS1)				*Prepared: 11/18/2015 07:30*			*Analyzed: 11/18/2015 07:30*			
Total Dissolved Solids (Residue, Filterable)	928	10.0	mg/L	942		98.5	85-111			
Duplicate (B5K0759-DUP1)		**Source: 15K0692-03**		*Prepared: 11/18/2015 07:30*			*Analyzed: 11/18/2015 07:30*			
Total Dissolved Solids (Residue, Filterable)	80900	10.0	mg/L		75400			7.09	5	P
Duplicate (B5K0759-DUP2)		**Source: 15K0180-05**		*Prepared: 11/18/2015 07:30*			*Analyzed: 11/18/2015 07:30*			
Total Dissolved Solids (Residue, Filterable)	470	10.0	mg/L		470			0.00	5	
Batch: B5K0826										
Blank (B5K0826-BLK1)				*Prepared: 11/19/2015 08:30*			*Analyzed: 11/19/2015 08:30*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B5K0826-BS1)				*Prepared: 11/19/2015 08:30*			*Analyzed: 11/19/2015 08:30*			
Total Dissolved Solids (Residue, Filterable)	911	10.0	mg/L	942		96.7	85-111			
Duplicate (B5K0826-DUP1)		**Source: 15K0492-06RE1**		*Prepared: 11/19/2015 08:30*			*Analyzed: 11/19/2015 08:30*			
Total Dissolved Solids (Residue, Filterable)	129000	10.0	mg/L		132000			1.90	5	
Batch: B5K1011										
Matrix Spike (B5K1011-MS1)		**Source: 15L0126-01**		*Prepared: 11/24/2015 07:45*			*Analyzed: 11/24/2015 13:40*			
Phenolics, Total Recoverable	107	10.0	mg/L	100	ND	107	80-120			
Matrix Spike Dup (B5K1011-MSD1)		**Source: 15L0126-01**		*Prepared: 11/24/2015 07:45*			*Analyzed: 11/24/2015 13:40*			
Phenolics, Total Recoverable	107	10.0	mg/L	100	ND	107	80-120	0.295	20	
Batch: B5K1018 - SW9010B										
Blank (B5K1018-BLK1)				*Prepared: 11/24/2015 08:45*			*Analyzed: 11/24/2015 14:40*			
Cyanide	< 0.010	0.010	mg/L							
LCS (B5K1018-BS1)				*Prepared: 11/24/2015 08:45*			*Analyzed: 11/24/2015 14:40*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K1018 - SW9010B *(Continued)*										
LCS (B5K1018-BS1) (Continued)				*Prepared: 11/24/2015 08:45*			*Analyzed: 11/24/2015 14:40*			
Cyanide	0.045	0.010	mg/L	0.0500		90.2	83-116			
Matrix Spike (B5K1018-MS1)		**Source: 15K0501-09**		*Prepared: 11/24/2015 08:45*			*Analyzed: 11/24/2015 16:42*			
Cyanide	0.126	0.010	mg/L	0.200	0.015	55.2	80-120			S
Matrix Spike Dup (B5K1018-MSD1)		**Source: 15K0501-09**		*Prepared: 11/24/2015 08:45*			*Analyzed: 11/24/2015 16:42*			
Cyanide	0.128	0.010	mg/L	0.200	0.015	56.1	80-120	1.52	10	S
Batch: B5K1070										
Blank (B5K1070-BLK1)				*Prepared: 11/25/2015 07:45*			*Analyzed: 11/25/2015 12:19*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B5K1070-BS1)				*Prepared: 11/25/2015 07:45*			*Analyzed: 11/25/2015 12:19*			
Phenolics, Total Recoverable	0.0562	0.0100	mg/L	0.0500		112	90-110			S
Matrix Spike (B5K1070-MS1)		**Source: 15K0180-06**		*Prepared: 11/25/2015 07:45*			*Analyzed: 11/25/2015 14:45*			
Phenolics, Total Recoverable	0.0640	0.0100	mg/L	0.0500	0.0124	103	80-120			
Matrix Spike Dup (B5K1070-MSD1)		**Source: 15K0180-06**		*Prepared: 11/25/2015 07:45*			*Analyzed: 11/25/2015 14:19*			
Phenolics, Total Recoverable	0.0622	0.0100	mg/L	0.0500	0.0124	99.7	80-120	2.83	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0676 - SW3510										
Blank (B5K0676-BLK1)				*Prepared: 11/16/2015 16:00 Analyzed: 11/21/2015 20:17*						
Aroclor 1016	< 0.500	0.500	ug/L							
Aroclor 1016 [2C]	< 0.500	0.500	ug/L							
Aroclor 1221	< 0.800	0.800	ug/L							
Aroclor 1221 [2C]	< 0.800	0.800	ug/L							
Aroclor 1232	< 1.00	1.00	ug/L							
Aroclor 1232 [2C]	< 1.00	1.00	ug/L							
Aroclor 1242	< 1.00	1.00	ug/L							
Aroclor 1242 [2C]	< 1.00	1.00	ug/L							
Aroclor 1248	< 1.00	1.00	ug/L							
Aroclor 1248 [2C]	< 1.00	1.00	ug/L							
Aroclor 1254	< 0.800	0.800	ug/L							
Aroclor 1254 [2C]	< 0.800	0.800	ug/L							
Aroclor 1260	< 0.500	0.500	ug/L							
Aroclor 1260 [2C]	< 0.500	0.500	ug/L							
Aroclor 1262	< 1.00	1.00	ug/L							
Aroclor 1262 [2C]	< 1.00	1.00	ug/L							
Aroclor 1268	< 0.500	0.500	ug/L							
Aroclor 1268 [2C]	< 0.500	0.500	ug/L							
Total PCB	< 1.00	1.00	ug/L							
Total PCB [2C]	< 1.00	1.00	ug/L							
Surrogate: Decachlorobiphenyl	*0.0645*		*ug/L*	*0.100*		*65*	*40-135*			
Surrogate: Decachlorobiphenyl [2C]	*0.0968*		*ug/L*	*0.100*		*97*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0596*		*ug/L*	*0.100*		*60*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0814*		*ug/L*	*0.100*		*81*	*13-133*			
LCS (B5K0676-BS1)				*Prepared: 11/16/2015 16:00 Analyzed: 11/21/2015 20:46*						
Aroclor 1016	0.477	0.500	ug/L	0.800		60	46-129			
Aroclor 1016 [2C]	0.549	0.500	ug/L	0.800		69	46-129			
Aroclor 1260	0.684	0.500	ug/L	0.800		85	45-134			
Aroclor 1260 [2C]	0.778	0.500	ug/L	0.800		97	45-134			
Surrogate: Decachlorobiphenyl	*0.0614*		*ug/L*	*0.100*		*61*	*40-135*			
Surrogate: Decachlorobiphenyl [2C]	*0.0952*		*ug/L*	*0.100*		*95*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0489*		*ug/L*	*0.100*		*49*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0628*		*ug/L*	*0.100*		*63*	*13-133*			
LCS Dup (B5K0676-BSD1)				*Prepared: 11/16/2015 16:00 Analyzed: 11/21/2015 21:15*						
Aroclor 1016	0.477	0.500	ug/L	0.800		60	46-129	0.05	20	
Aroclor 1016 [2C]	0.546	0.500	ug/L	0.800		68	46-129	0.5	20	
Aroclor 1260	0.620	0.500	ug/L	0.800		78	45-134	10	20	
Aroclor 1260 [2C]	0.794	0.500	ug/L	0.800		99	45-134	2	20	
Surrogate: Decachlorobiphenyl	*0.0796*		*ug/L*	*0.100*		*80*	*40-135*			
Surrogate: Decachlorobiphenyl [2C]	*0.107*		*ug/L*	*0.100*		*107*	*40-135*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0676 - SW3510 *(Continued)*										
LCS Dup (B5K0676-BSD1) (Continued)				*Prepared: 11/16/2015 16:00*			*Analyzed: 11/21/2015 21:15*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0615*		*ug/L*	*0.100*		*62*	*13-133*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0648*		*ug/L*	*0.100*		*65*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5L0069										
Blank (B5L0069-BLK1)				*Prepared: 12/02/2015 10:12*		*Analyzed: 12/02/2015 11:11*				
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B5L0069-BS1)				*Prepared: 12/02/2015 10:12*		*Analyzed: 12/02/2015 11:46*				
Aldicarb	50.5	2.00	ug/L	50.0		101	85-115			
Carbofuran	51.4	2.00	ug/L	50.0		103	85-115			
Matrix Spike (B5L0069-MS1)		**Source: 15K0180-06**		*Prepared: 12/02/2015 10:12*		*Analyzed: 12/02/2015 15:35*				
Aldicarb	50.1	2.00	ug/L	50.0	ND	100	60-130			
Carbofuran	52.7	2.00	ug/L	50.0	ND	105	60-130			
Matrix Spike Dup (B5L0069-MSD1)		**Source: 15K0180-06**		*Prepared: 12/02/2015 10:12*		*Analyzed: 12/02/2015 16:37*				
Aldicarb	48.6	2.00	ug/L	50.0	ND	97	60-130	3	20	
Carbofuran	51.1	2.00	ug/L	50.0	ND	102	60-130	3	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0804 - SW3510										
Blank (B5K0804-BLK1)				*Prepared: 11/18/2015 08:30*			*Analyzed: 11/19/2015 16:44*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*19.8*		*ug/L*	*25.0*		*79*	*37-152*			
LCS (B5K0804-BS1)				*Prepared: 11/18/2015 08:30*			*Analyzed: 11/19/2015 13:55*			
2,4,5-TP (Silvex)	8.39	1.50	ug/L	10.0		84	59.3-127			
2,4-D	8.12	1.50	ug/L	10.0		81	44.4-117			
Picloram	8.11	1.50	ug/L	10.0		81	10-60			S
Surrogate: 3,5-Dichlorobenzoic Acid	*17.1*		*ug/L*	*25.0*		*69*	*37-152*			
LCS (B5K0804-BS2)				*Prepared: 11/18/2015 14:37*			*Analyzed: 11/24/2015 01:22*			
Dinoseb	6.64	1.50	ug/L	10.0		66	52-100			
Surrogate: 3,5-Dichlorobenzoic Acid	*28.3*		*ug/L*	*25.0*		*113*	*37-152*			
LCS Dup (B5K0804-BSD1)				*Prepared: 11/18/2015 08:30*			*Analyzed: 11/19/2015 14:37*			
2,4,5-TP (Silvex)	8.36	1.50	ug/L	10.0		84	59.3-127	0.4	20	
2,4-D	8.17	1.50	ug/L	10.0		82	44.4-117	0.6	20	
Picloram	8.22	1.50	ug/L	10.0		82	10-60	1	20	S
Surrogate: 3,5-Dichlorobenzoic Acid	*17.0*		*ug/L*	*25.0*		*68*	*37-152*			
LCS Dup (B5K0804-BSD2)				*Prepared: 11/18/2015 14:37*			*Analyzed: 11/24/2015 02:05*			
Dinoseb	6.11	1.50	ug/L	10.0		61	52-100	8	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*28.6*		*ug/L*	*25.0*		*115*	*37-152*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0943 - SW5030										
Blank (B5K0943-BLK1)				*Prepared: 11/18/2015 08:55*			*Analyzed: 11/18/2015 13:41*			
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	2.33	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*20.1*		*ug/L*	*20.0*		*101*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.6*		*ug/L*	*20.0*		*113*	*81-118*			
Surrogate: Fluorobenzene	*20.5*		*ug/L*	*20.0*		*102*	*80-116*			
Surrogate: Toluene-d8	*20.6*		*ug/L*	*20.0*		*103*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.1*		*ug/L*	*10.0*		*101*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.5*		*ug/L*	*20.0*		*103*	*70-120*			
LCS (B5K0943-BS1)				*Prepared: 11/18/2015 08:55*			*Analyzed: 11/18/2015 10:43*			
1,1,1-Trichloroethane	89.6	2.00	ug/L	80.0		112	74-131			
1,1,2-Trichloroethane	75.1	2.00	ug/L	80.0		94	80-119			
1,1-Dichloroethene	91.6	2.00	ug/L	80.0		115	71-131			
1,2-Dichloroethane	84.4	2.00	ug/L	80.0		105	73-128			
1,2-Dichloropropane	83.4	2.00	ug/L	80.0		104	78-122			
Benzene	82.8	2.00	ug/L	80.0		103	79-120			
Carbon tetrachloride	84.3	4.00	ug/L	80.0		105	72-136			
Chlorobenzene	80.4	2.00	ug/L	80.0		101	82-118			
cis-1,2-Dichloroethene	88.7	10.0	ug/L	80.0		111	78-123			
Ethylbenzene	84.3	2.00	ug/L	80.0		105	79-121			
Methyl tert-butyl ether	78.0	2.00	ug/L	80.0		97	71-124			
Dichloromethane (Methylene chloride)	82.2	2.00	ug/L	80.0		103	74-124			
Styrene	83.6	2.00	ug/L	80.0		104	78-123			
Tetrachloroethene	79.7	4.00	ug/L	80.0		100	74-129			
Toluene	81.0	2.00	ug/L	80.0		101	80-121			B

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0943 - SW5030 *(Continued)*										
LCS (B5K0943-BS1) (Continued)				*Prepared: 11/18/2015 08:55*			*Analyzed: 11/18/2015 10:43*			
trans-1,2-Dichloroethene	86.8	10.0	ug/L	80.0		109	75-124			
Trichloroethene	83.6	2.00	ug/L	80.0		105	79-123			
Vinyl chloride	104	2.00	ug/L	80.0		130	58-137			
Xylenes, Total	246	8.00	ug/L	240		102	79-121			
Surrogate: Dibromofluoromethane	*22.4*		*ug/L*	*20.0*		*112*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.0*		*ug/L*	*20.0*		*110*	*81-118*			
Surrogate: Fluorobenzene	*20.4*		*ug/L*	*20.0*		*102*	*80-116*			
Surrogate: Toluene-d8	*20.2*		*ug/L*	*20.0*		*101*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.33*		*ug/L*	*10.0*		*93*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.4*		*ug/L*	*20.0*		*97*	*70-120*			
LCS Dup (B5K0943-BSD1)				*Prepared: 11/18/2015 08:55*			*Analyzed: 11/18/2015 11:13*			
1,1,1-Trichloroethane	87.4	2.00	ug/L	80.0		109	74-131	2	20	
1,1,2-Trichloroethane	81.8	2.00	ug/L	80.0		102	80-119	9	20	
1,1-Dichloroethene	90.3	2.00	ug/L	80.0		113	71-131	1	20	
1,2-Dichloroethane	88.7	2.00	ug/L	80.0		111	73-128	5	20	
1,2-Dichloropropane	87.1	2.00	ug/L	80.0		109	78-122	4	20	
Benzene	85.2	2.00	ug/L	80.0		106	79-120	3	20	
Carbon tetrachloride	87.2	4.00	ug/L	80.0		109	72-136	3	20	
Chlorobenzene	81.3	2.00	ug/L	80.0		102	82-118	1	20	
cis-1,2-Dichloroethene	88.7	10.0	ug/L	80.0		111	78-123	0.03	20	
Ethylbenzene	85.2	2.00	ug/L	80.0		106	79-121	1	20	
Methyl tert-butyl ether	82.1	2.00	ug/L	80.0		103	71-124	5	20	
Dichloromethane (Methylene chloride)	82.9	2.00	ug/L	80.0		104	74-124	0.8	20	
Styrene	83.7	2.00	ug/L	80.0		105	78-123	0.1	20	
Tetrachloroethene	79.0	4.00	ug/L	80.0		99	74-129	0.9	20	
Toluene	83.0	2.00	ug/L	80.0		104	80-121	2	20	B
trans-1,2-Dichloroethene	85.8	10.0	ug/L	80.0		107	75-124	1	20	
Trichloroethene	84.9	2.00	ug/L	80.0		106	79-123	1	20	
Vinyl chloride	101	2.00	ug/L	80.0		126	58-137	3	20	
Xylenes, Total	253	8.00	ug/L	240		106	79-121	3	20	
Surrogate: Dibromofluoromethane	*22.3*		*ug/L*	*20.0*		*112*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.2*		*ug/L*	*20.0*		*111*	*81-118*			
Surrogate: Fluorobenzene	*20.3*		*ug/L*	*20.0*		*102*	*80-116*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.66*		*ug/L*	*10.0*		*97*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.3*		*ug/L*	*20.0*		*101*	*70-120*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0943 - SW5030 *(Continued)*										
Matrix Spike (B5K0943-MS1)	**Source: 15K0180-06**			*Prepared: 11/18/2015 08:55*		*Analyzed: 11/18/2015 21:13*				
1,1,1-Trichloroethane	81.0	2.00	ug/L	80.0	ND	101	70-130			
1,1,2-Trichloroethane	80.8	2.00	ug/L	80.0	ND	101	70-130			
1,1-Dichloroethene	85.1	2.00	ug/L	80.0	ND	106	70-130			
1,2-Dichloroethane	84.2	2.00	ug/L	80.0	ND	105	70-130			
1,2-Dichloropropane	81.7	2.00	ug/L	80.0	ND	102	70-130			
Benzene	81.5	2.00	ug/L	80.0	ND	102	70-130			
Carbon tetrachloride	82.7	4.00	ug/L	80.0	ND	103	70-130			
Chlorobenzene	83.1	2.00	ug/L	80.0	ND	104	70-130			
cis-1,2-Dichloroethene	81.7	10.0	ug/L	80.0	ND	102	70-130			
Ethylbenzene	82.2	2.00	ug/L	80.0	0.480	102	70-130			
Methyl tert-butyl ether	82.9	2.00	ug/L	80.0	ND	104	70-130			
Dichloromethane (Methylene chloride)	78.3	2.00	ug/L	80.0	0.660	97	70-130			
Styrene	85.3	2.00	ug/L	80.0	ND	107	70-130			
Tetrachloroethene	79.0	4.00	ug/L	80.0	ND	99	70-130			
Toluene	82.1	2.00	ug/L	80.0	2.33	100	70-130			B
trans-1,2-Dichloroethene	79.4	10.0	ug/L	80.0	ND	99	70-130			
Trichloroethene	80.5	2.00	ug/L	80.0	ND	101	70-130			
Vinyl chloride	82.6	2.00	ug/L	80.0	ND	103	70-130			
Xylenes, Total	243	8.00	ug/L	240	3.24	100	70-130			
Surrogate: Dibromofluoromethane	*20.9*		*ug/L*	*20.0*		*104*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.0*		*ug/L*	*20.0*		*100*	*81-118*			
Surrogate: Fluorobenzene	*20.0*		*ug/L*	*20.0*		*100*	*80-116*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.98*		*ug/L*	*10.0*		*100*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.7*		*ug/L*	*20.0*		*98*	*70-120*			
Matrix Spike Dup (B5K0943-MSD1)	**Source: 15K0180-06**			*Prepared: 11/18/2015 08:55*		*Analyzed: 11/18/2015 21:43*				
1,1,1-Trichloroethane	82.9	2.00	ug/L	80.0	ND	104	70-130	2	20	
1,1,2-Trichloroethane	79.9	2.00	ug/L	80.0	ND	100	70-130	1	20	
1,1-Dichloroethene	85.2	2.00	ug/L	80.0	ND	106	70-130	0.09	20	
1,2-Dichloroethane	85.4	2.00	ug/L	80.0	ND	107	70-130	1	20	
1,2-Dichloropropane	81.7	2.00	ug/L	80.0	ND	102	70-130	0.06	20	
Benzene	81.5	2.00	ug/L	80.0	ND	102	70-130	0.05	20	
Carbon tetrachloride	82.5	4.00	ug/L	80.0	ND	103	70-130	0.2	20	
Chlorobenzene	83.2	2.00	ug/L	80.0	ND	104	70-130	0.06	20	
cis-1,2-Dichloroethene	82.4	10.0	ug/L	80.0	ND	103	70-130	0.8	20	
Ethylbenzene	83.0	2.00	ug/L	80.0	0.480	103	70-130	0.9	20	
Methyl tert-butyl ether	82.2	2.00	ug/L	80.0	ND	103	70-130	0.8	20	
Dichloromethane (Methylene chloride)	78.7	2.00	ug/L	80.0	0.660	98	70-130	0.5	20	
Styrene	82.9	2.00	ug/L	80.0	ND	104	70-130	3	20	
Tetrachloroethene	80.2	4.00	ug/L	80.0	ND	100	70-130	1	20	
Toluene	81.9	2.00	ug/L	80.0	2.33	99	70-130	0.2	20	B

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0943 - SW5030 *(Continued)*										
Matrix Spike Dup (B5K0943-MSD1) (Continued)		**Source: 15K0180-06**		*Prepared: 11/18/2015 08:55*		*Analyzed: 11/18/2015 21:43*				
trans-1,2-Dichloroethene	81.6	10.0	ug/L	80.0	ND	102	70-130	3	20	
Trichloroethene	80.6	2.00	ug/L	80.0	ND	101	70-130	0.1	20	
Vinyl chloride	91.1	2.00	ug/L	80.0	ND	114	70-130	10	20	
Xylenes, Total	245	8.00	ug/L	240	3.24	101	70-130	0.7	20	
Surrogate: Dibromofluoromethane	*21.3*		*ug/L*	*20.0*		*107*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*20.2*		*ug/L*	*20.0*		*101*	*81-118*			
Surrogate: Fluorobenzene	*19.9*		*ug/L*	*20.0*		*99*	*80-116*			
Surrogate: Toluene-d8	*20.4*		*ug/L*	*20.0*		*102*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*9.83*		*ug/L*	*10.0*		*98*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.5*		*ug/L*	*20.0*		*97*	*70-120*			
Batch: B5K1086 - SW5030										
Blank (B5K1086-BLK1)				*Prepared: 11/23/2015 13:20*		*Analyzed: 11/24/2015 09:53*				
1,1,1-Trichloroethane	< 2.00	2.00	ug/L							
1,1,2-Trichloroethane	< 2.00	2.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 2.00	2.00	ug/L							
Benzene	< 2.00	2.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 2.00	2.00	ug/L							
cis-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 2.00	2.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 2.00	2.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 2.00	2.00	ug/L							
trans-1,2-Dichloroethene	< 10.0	10.0	ug/L							
Trichloroethene	< 2.00	2.00	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 8.00	8.00	ug/L							
Surrogate: Dibromofluoromethane	*21.5*		*ug/L*	*20.0*		*108*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*22.9*		*ug/L*	*20.0*		*115*	*81-118*			
Surrogate: Fluorobenzene	*20.5*		*ug/L*	*20.0*		*103*	*80-116*			
Surrogate: Toluene-d8	*20.4*		*ug/L*	*20.0*		*102*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*8.12*		*ug/L*	*10.0*		*81*	*85-114*			*S*
Surrogate: 1,2-Dichlorobenzene-d4	*16.9*		*ug/L*	*20.0*		*84*	*70-120*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K1086 - SW5030 *(Continued)*										
LCS (B5K1086-BS1)				*Prepared: 11/23/2015 13:20*			*Analyzed: 11/23/2015 23:50*			
1,1,1-Trichloroethane	71.9	2.00	ug/L	80.0		90	74-131			
1,1,2-Trichloroethane	76.1	2.00	ug/L	80.0		95	80-119			
1,1-Dichloroethene	70.2	2.00	ug/L	80.0		88	71-131			
1,2-Dichloroethane	68.1	2.00	ug/L	80.0		85	73-128			
1,2-Dichloropropane	79.3	2.00	ug/L	80.0		99	78-122			
Benzene	79.0	2.00	ug/L	80.0		99	79-120			
Carbon tetrachloride	79.3	4.00	ug/L	80.0		99	72-136			
Chlorobenzene	72.9	2.00	ug/L	80.0		91	82-118			
cis-1,2-Dichloroethene	76.4	10.0	ug/L	80.0		95	78-123			
Ethylbenzene	82.8	2.00	ug/L	80.0		104	79-121			
Methyl tert-butyl ether	81.4	2.00	ug/L	80.0		102	71-124			
Dichloromethane (Methylene chloride)	83.8	2.00	ug/L	80.0		105	74-124			
Styrene	82.5	2.00	ug/L	80.0		103	78-123			
Tetrachloroethene	71.1	4.00	ug/L	80.0		89	74-129			
Toluene	74.7	2.00	ug/L	80.0		93	80-121			
trans-1,2-Dichloroethene	81.0	10.0	ug/L	80.0		101	75-124			
Trichloroethene	69.3	2.00	ug/L	80.0		87	79-123			
Vinyl chloride	87.0	2.00	ug/L	80.0		109	58-137			
Xylenes, Total	247	8.00	ug/L	240		103	79-121			
Surrogate: Dibromofluoromethane	*20.0*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*17.8*		*ug/L*	*20.0*		*89*	*81-118*			
Surrogate: Fluorobenzene	*20.8*		*ug/L*	*20.0*		*104*	*80-116*			
Surrogate: Toluene-d8	*19.9*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.6*		*ug/L*	*10.0*		*106*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.6*		*ug/L*	*20.0*		*108*	*70-120*			
LCS Dup (B5K1086-BSD1)				*Prepared: 11/23/2015 13:20*			*Analyzed: 11/24/2015 00:23*			
1,1,1-Trichloroethane	71.3	2.00	ug/L	80.0		89	74-131	0.9	20	
1,1,2-Trichloroethane	67.4	2.00	ug/L	80.0		84	80-119	12	20	
1,1-Dichloroethene	72.7	2.00	ug/L	80.0		91	71-131	3	20	
1,2-Dichloroethane	66.7	2.00	ug/L	80.0		83	73-128	2	20	
1,2-Dichloropropane	71.4	2.00	ug/L	80.0		89	78-122	10	20	
Benzene	74.7	2.00	ug/L	80.0		93	79-120	6	20	
Carbon tetrachloride	70.6	4.00	ug/L	80.0		88	72-136	12	20	
Chlorobenzene	72.5	2.00	ug/L	80.0		91	82-118	0.6	20	
cis-1,2-Dichloroethene	77.0	10.0	ug/L	80.0		96	78-123	0.8	20	
Ethylbenzene	78.0	2.00	ug/L	80.0		97	79-121	6	20	
Methyl tert-butyl ether	77.9	2.00	ug/L	80.0		97	71-124	4	20	
Dichloromethane (Methylene chloride)	84.9	2.00	ug/L	80.0		106	74-124	1	20	
Styrene	77.8	2.00	ug/L	80.0		97	78-123	6	20	
Tetrachloroethene	70.2	4.00	ug/L	80.0		88	74-129	1	20	
Toluene	73.4	2.00	ug/L	80.0		92	80-121	2	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K1086 - SW5030 *(Continued)*										
LCS Dup (B5K1086-BSD1) (Continued)				*Prepared: 11/23/2015 13:20*			*Analyzed: 11/24/2015 00:23*			
trans-1,2-Dichloroethene	81.3	10.0	ug/L	80.0		102	75-124	0.3	20	
Trichloroethene	67.1	2.00	ug/L	80.0		84	79-123	3	20	
Vinyl chloride	87.1	2.00	ug/L	80.0		109	58-137	0.2	20	
Xylenes, Total	235	8.00	ug/L	240		98	79-121	5	20	
Surrogate: Dibromofluoromethane	*19.9*		*ug/L*	*20.0*		*100*	*80-119*			
Surrogate: 1,2-Dichloroethane-d4	*18.5*		*ug/L*	*20.0*		*92*	*81-118*			
Surrogate: Fluorobenzene	*20.2*		*ug/L*	*20.0*		*101*	*80-116*			
Surrogate: Toluene-d8	*20.0*		*ug/L*	*20.0*		*100*	*89-112*			
Surrogate: 4-Bromofluorobenzene	*10.9*		*ug/L*	*10.0*		*109*	*85-114*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.9*		*ug/L*	*20.0*		*104*	*70-120*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5L0481										
Blank (B5L0481-BLK1)				*Prepared: 12/04/2015 10:00*			*Analyzed: 12/04/2015 14:50*			
1,2-Dibromo-3-chloropropane	< 0.100	0.100	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.100	0.100	ug/L							
LCS (B5L0481-BS1)				*Prepared: 12/04/2015 10:00*			*Analyzed: 12/04/2015 15:21*			
1,2-Dibromo-3-chloropropane	0.229	0.100	ug/L	0.250		92	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.216	0.100	ug/L	0.250		86	70-130			
LCS Dup (B5L0481-BSD1)				*Prepared: 12/04/2015 10:00*			*Analyzed: 12/04/2015 16:46*			
1,2-Dibromo-3-chloropropane	0.232	0.100	ug/L	0.250		93	70-130	1	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.222	0.100	ug/L	0.250		89	70-130	3	20	
Duplicate (B5L0481-DUP1)		**Source: 15K0180-02**		*Prepared: 12/04/2015 10:00*			*Analyzed: 12/04/2015 18:51*			
1,2-Dibromo-3-chloropropane	< 0.0243	0.0972	ug/L		ND				200	
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0321	0.0972	ug/L		ND				200	
Matrix Spike (B5L0481-MS1)		**Source: 15K0180-01**		*Prepared: 12/04/2015 10:00*			*Analyzed: 12/04/2015 17:48*			
1,2-Dibromo-3-chloropropane	0.246	0.100	ug/L	0.250	ND	98	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.220	0.100	ug/L	0.250	ND	88	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K1004										
Blank (B5K1004-BLK1)				*Prepared: 11/23/2015 16:36*			*Analyzed: 11/24/2015 12:56*			
Dalapon	< 0.500	0.500	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*11.1*		*ug/L*	*10.0*		*111*	*70-130*			
LCS (B5K1004-BS1)				*Prepared: 11/23/2015 16:36*			*Analyzed: 11/24/2015 13:31*			
Dalapon	10.4	0.500	ug/L	10.0		104	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*13.7*		*ug/L*	*10.0*		*137*	*70-130*			*S*
Duplicate (B5K1004-DUP1)		**Source: 15K0180-04**		*Prepared: 11/23/2015 16:36*			*Analyzed: 11/24/2015 17:55*			
Dalapon	< 0.122	0.500	ug/L		ND				20	
Surrogate: 2,4-Dichlorophenylacetic acid	*15.4*		*ug/L*	*10.0*		*154*	*70-130*			*S*
Matrix Spike (B5K1004-MS1)		**Source: 15K0180-06**		*Prepared: 11/23/2015 16:36*			*Analyzed: 11/24/2015 14:45*			
Dalapon	11.4	0.500	ug/L	10.0	ND	114	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*13.7*		*ug/L*	*10.0*		*137*	*70-130*			*S*
Matrix Spike Dup (B5K1004-MSD1)		**Source: 15K0180-06**		*Prepared: 11/23/2015 16:36*			*Analyzed: 11/24/2015 15:23*			
Dalapon	11.6	0.500	ug/L	10.0	ND	116	70-130	1	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*14.2*		*ug/L*	*10.0*		*142*	*70-130*			*S*

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0633 - SW3510										
Blank (B5K0633-BLK1)				*Prepared: 11/16/2015 09:00*			*Analyzed: 11/17/2015 17:29*			
1,2,4-Trichlorobenzene	< 5.00	5.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 5.00	5.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 5.00	5.00	ug/L							
Benzo(a)pyrene	< 10.0	10.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 10.0	10.0	ug/L							
Hexachlorocyclopentadiene	< 25.0	25.0	ug/L							
Pentachlorophenol	< 100	100	ug/L							
Surrogate: 2-Fluorophenol	*13.0*		*ug/L*	*33.4*		*39*	*4-108*			
Surrogate: Phenol-d5	*8.76*		*ug/L*	*33.4*		*26*	*1-101*			
Surrogate: Nitrobenzene-d5	*20.6*		*ug/L*	*33.4*		*62*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*23.4*		*ug/L*	*33.4*		*70*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*24.2*		*ug/L*	*33.4*		*73*	*11-102*			
Surrogate: 4-Terphenyl-d14	*42.0*		*ug/L*	*33.4*		*126*	*79-162*			
LCS (B5K0633-BS1)				*Prepared: 11/16/2015 09:00*			*Analyzed: 11/17/2015 18:13*			
1,2,4-Trichlorobenzene	34.6	5.00	ug/L	50.0		69	36-97			
o-Dichlorobenzene (1,2-Dichlorobenzene)	34.2	5.00	ug/L	50.0		68	25-101			
p-Dichlorobenzene (1,4-Dichlorobenzene)	32.4	5.00	ug/L	50.0		65	24-101			
Benzo(a)pyrene	45.6	10.0	ug/L	50.0		91	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	50.3	10.0	ug/L	50.0		101	46-122			
Hexachlorocyclopentadiene	31.2	25.0	ug/L	50.0		62	19-112			
Pentachlorophenol	34.2	100	ug/L	50.0		68	37-120			
Surrogate: 2-Fluorophenol	*17.4*		*ug/L*	*33.4*		*52*	*4-108*			
Surrogate: Phenol-d5	*13.3*		*ug/L*	*33.4*		*40*	*1-101*			
Surrogate: Nitrobenzene-d5	*27.2*		*ug/L*	*33.4*		*82*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*28.8*		*ug/L*	*33.4*		*86*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*31.7*		*ug/L*	*33.4*		*95*	*11-102*			
Surrogate: 4-Terphenyl-d14	*37.0*		*ug/L*	*33.4*		*111*	*79-162*			
LCS Dup (B5K0633-BSD1)				*Prepared: 11/16/2015 09:00*			*Analyzed: 11/17/2015 18:57*			
1,2,4-Trichlorobenzene	35.0	5.00	ug/L	50.0		70	36-97	1	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	35.6	5.00	ug/L	50.0		71	25-101	4	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	34.2	5.00	ug/L	50.0		68	24-101	6	20	
Benzo(a)pyrene	45.1	10.0	ug/L	50.0		90	49-124	1	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	49.7	10.0	ug/L	50.0		99	46-122	1	20	
Hexachlorocyclopentadiene	31.1	25.0	ug/L	50.0		62	19-112	0.06	20	
Pentachlorophenol	32.8	100	ug/L	50.0		66	37-120	4	20	
Surrogate: 2-Fluorophenol	*18.5*		*ug/L*	*33.4*		*55*	*4-108*			
Surrogate: Phenol-d5	*11.9*		*ug/L*	*33.4*		*36*	*1-101*			
Surrogate: Nitrobenzene-d5	*26.1*		*ug/L*	*33.4*		*78*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*27.3*		*ug/L*	*33.4*		*82*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*30.7*		*ug/L*	*33.4*		*92*	*11-102*			

Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0633 - SW3510 *(Continued)*										
LCS Dup (B5K0633-BSD1) (Continued)				*Prepared: 11/16/2015 09:00*			*Analyzed: 11/17/2015 18:57*			
Surrogate: 4-Terphenyl-d14	*35.9*		*ug/L*	*33.4*		*108*	*79-162*			
Matrix Spike (B5K0633-MS1)		**Source: 15K0119-01**		*Prepared: 11/16/2015 09:00*			*Analyzed: 11/21/2015 02:37*			
1,2,4-Trichlorobenzene	29.9	4.47	ug/L	55.9	ND	53	19-90			
o-Dichlorobenzene (1,2-Dichlorobenzene)	27.9	4.47	ug/L	55.9	ND	50	17-86			
p-Dichlorobenzene (1,4-Dichlorobenzene)	27.2	4.47	ug/L	55.9	ND	49	16-84			
Benzo(a)pyrene	51.3	8.95	ug/L	55.9	ND	92	55-102			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	60.9	8.95	ug/L	55.9	3.04	103	56-97			S
Hexachlorocyclopentadiene	28.4	22.4	ug/L	55.9	ND	51	10-107			
Pentachlorophenol	51.1	89.5	ug/L	55.9	ND	91	10-107			
Surrogate: 2-Fluorophenol	*11.8*		*ug/L*	*37.3*		*32*	*4-108*			
Surrogate: Phenol-d5	*10.2*		*ug/L*	*37.3*		*27*	*1-101*			
Surrogate: Nitrobenzene-d5	*22.7*		*ug/L*	*37.3*		*61*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*27.2*		*ug/L*	*37.3*		*73*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*36.5*		*ug/L*	*37.3*		*98*	*11-102*			
Surrogate: 4-Terphenyl-d14	*41.8*		*ug/L*	*37.3*		*112*	*79-162*			
Matrix Spike Dup (B5K0633-MSD1)		**Source: 15K0119-01**		*Prepared: 11/16/2015 09:00*			*Analyzed: 11/21/2015 03:17*			
1,2,4-Trichlorobenzene	29.7	4.84	ug/L	60.5	ND	49	19-90	0.5	46	
o-Dichlorobenzene (1,2-Dichlorobenzene)	28.4	4.84	ug/L	60.5	ND	47	17-86	2	52	
p-Dichlorobenzene (1,4-Dichlorobenzene)	27.5	4.84	ug/L	60.5	ND	45	16-84	1	55	
Benzo(a)pyrene	55.1	9.69	ug/L	60.5	ND	91	55-102	7	31	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	64.9	9.69	ug/L	60.5	3.04	102	56-97	6	19	S
Hexachlorocyclopentadiene	27.4	24.2	ug/L	60.5	ND	45	10-107	4	42	
Pentachlorophenol	53.4	96.9	ug/L	60.5	ND	88	10-107	5	46	
Surrogate: 2-Fluorophenol	*12.8*		*ug/L*	*40.4*		*32*	*4-108*			
Surrogate: Phenol-d5	*10.5*		*ug/L*	*40.4*		*26*	*1-101*			
Surrogate: Nitrobenzene-d5	*23.2*		*ug/L*	*40.4*		*57*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*27.2*		*ug/L*	*40.4*		*67*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*39.6*		*ug/L*	*40.4*		*98*	*11-102*			
Surrogate: 4-Terphenyl-d14	*44.6*		*ug/L*	*40.4*		*110*	*79-162*			
Batch: B5K0906										
Blank (B5K0906-BLK1)				*Prepared: 11/19/2015 12:30*			*Analyzed: 12/02/2015 03:14*			
Endothall	< 31.0	31.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*405*		*ug/L*	*334*		*121*	*20-200*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2015
Work Order: 15K0180

Report Date: 12/21/2015
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B5K0906 *(Continued)*										
LCS (B5K0906-BS1)				*Prepared: 11/19/2015 12:30*			*Analyzed: 12/02/2015 03:53*			
Endothall	501	31.0	ug/L	500		100	50-150			
Surrogate: 2,4,6-Tribromophenol	*405*		*ug/L*	*334*		*121*	*20-200*			
Duplicate (B5K0906-DUP1)		**Source: 15K0180-04**		*Prepared: 11/19/2015 12:30*			*Analyzed: 12/02/2015 06:35*			
Endothall	< 23.9	31.0	ug/L		ND				20	
Surrogate: 2,4,6-Tribromophenol	*399*		*ug/L*	*334*		*120*	*20-200*			
Matrix Spike (B5K0906-MS1)		**Source: 15K0180-05**		*Prepared: 11/19/2015 12:30*			*Analyzed: 12/02/2015 05:14*			
Endothall	469	31.0	ug/L	500	ND	94	50-150			
Surrogate: 2,4,6-Tribromophenol	*461*		*ug/L*	*334*		*138*	*20-200*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	ISO,WDNR,DoD,ILEPA
Arsenic	7440-38-2	ISO,AKDEC,WDNR,DoD,ILEPA
Barium	7440-39-3	ISO,AKDEC,WDNR,DoD,ILEPA
Beryllium	7440-41-7	ISO,WDNR,DoD,ILEPA
Boron	7440-42-8	WDNR,DoD,ILEPA
Cadmium	7440-43-9	ISO,AKDEC,WDNR,DoD,ILEPA
Calcium	7440-70-2	DoD,ILEPA
Chromium	7440-47-3	ISO,AKDEC,WDNR,DoD,ILEPA
Cobalt	7440-48-4	ISO,DoD,ILEPA
Copper	7440-50-8	ISO,WDNR,DoD,ILEPA
Iron	7439-89-6	ISO,WDNR,DoD,ILEPA
Lead	7439-92-1	ISO,AKDEC,WDNR,DoD,ILEPA
Manganese	7439-96-5	ISO,WDNR,DoD,ILEPA
Molybdenum	7439-98-7	WDNR,DoD,ILEPA
Nickel	7440-02-0	ISO,AKDEC,WDNR,DoD,ILEPA
Selenium	7782-49-2	ISO,WDNR,DoD,ILEPA
Silver	7440-22-4	ISO,WDNR,DoD,ILEPA
Thallium	7440-28-0	ISO,WDNR,DoD,ILEPA
Zinc	7440-66-6	ISO,WDNR,DoD,ILEPA
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
gamma-BHC	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
Total PCB	1336-36-3	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Benzene	71-43-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,DoD,ILEPA
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Styrene	100-42-5	LELAP,WDNR,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,LELAP,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,DoD,ILEPA
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321B in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem in Water		

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9014 by Aquachem in Water (Continued)		
Cyanide	57-12-5	DoD,ILEPA,WDNR
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR
Fluoride	16984-48-8	DoD,ILEPA,WDNR
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR
SW9065 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2016
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	07/27/2016
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2016
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2016

Environmental Monitoring and Technologies, Inc.

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Qualifiers and Definitions

Item	Description
B	Analyte was present in the method blank.
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

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Environmental Monitoring and Technol
8100 Austin Ave
Morton Grove
IL, 60053-3203

15K0180

PM: Jason Cristino
City, Water, Light & Power
Fax: 847-967-67-35

Page 1 of 1

COC Number
Lab Work Order Number 15K0180

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Brahmer	Sampler Signature: Patrick Brahmer

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.
Standard (days): 5
Expedited (days):
Due Date: 11/10/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code 5	8	3	9	4	2					Sample Comments
AW-3	11/13/15	0945	G	W	22	3	1	3	13	1	1					01A
AP-1	11/13/15	0900	G	W	22	3	1	3	13	1	1					02A
~~AP-2~~	~~11/13/15~~	—	~~G~~	~~W~~	~~22~~	~~3~~	~~1~~	~~3~~	~~13~~	~~1~~	~~1~~					
AP-3	11/13/15	0825	G	W	22	3	1	3	13	1	1					03A
AP-4	11/13/15	0750	G	W	22	3	1	3	13	1	1					04A
~~AP-5~~	—	—	~~G~~	~~W~~	~~22~~	~~3~~	~~1~~	~~3~~	~~13~~	~~1~~	~~1~~					

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Brahmer	11/13/15 1415				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 11/13/15 1415		
Cooler Numbers and Temperatures		5			

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Cal PH 7.0 = 7.0 @ 0725

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 15K0180

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E504.1::E548.1::E552.1::SM2510B::SM; SW9014 by Aquachem; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 11/10/2015 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	2					
AW-3	11/13/15	07:55	G	W	22	3	1	3	13	1	1					
AP-1			G	W	22	3	1	3	13	1	1					
AP-2			G	W	22	3	1	3	13	1	1					
AP-3			G	W	22	3	1	3	13	1	1					
AP-4			G	W	22	3	1	3	13	1	1					
AP-5	11/13/15	0755	G	W	22	3	1	3	13	1	1					OSA

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	11/13/15 10:00	Patrick Boh	11/13/15 1100		
Relinquished By: Patrick Boh	Date/Time: 11/13/15 1415	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time: 11/13/15 1415		
Cooler Numbers and Temperatures: 5					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7= 7.00 @ 07:40

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-128144-1
Client Project/Site: 15K0180

For:
Environmental Monitoring and Technologie
8050 North Austin Avenue
Morton Grove, Illinois 60053

Attn: Mr. Matt Gregory

Ann Tran

Authorized for release by:
11/25/2015 4:39:21 PM
Ann Tran, Project Management Assistant I
annt.tran@testamericainc.com

Designee for

Urvashi Patel, Manager of Project Management
(949)261-1022
urvashi.patel@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Response to 1st RVI
TestAmerica Irvine
11/25/2015
CWLP - 02866

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Sample Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-128144-1	15K0180-01	Water	11/13/15 09:45	11/17/15 12:35
440-128144-2	15K0180-02	Water	11/13/15 09:00	11/17/15 12:35
440-128144-3	15K0180-04	Water	11/13/15 08:25	11/17/15 12:35
440-128144-4	15K0180-05	Water	11/13/15 07:50	11/17/15 12:35
440-128144-5	15K0180-06	Water	11/13/15 07:55	11/17/15 12:35

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Case Narrative

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Job ID: 440-128144-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-128144-1

Comments
No additional comments.

Receipt
The samples were received on 11/17/2015 12:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 18.3º C.

Metals
Method(s) 6010B: The continuing calibration verification (CCV) associated with batch 295653 recovered above the upper control limit for Lithium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 15K0180-04 (440-128144-3) and 15K0180-06 (440-128144-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Irvine
Response to 15LRP
11/25/2015
CWLP - 02868

Client Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Client Sample ID: 15K0180-01
Lab Sample ID: 440-128144-1
Date Collected: 11/13/15 09:45
Matrix: Water
Date Received: 11/17/15 12:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		11/20/15 09:43	11/21/15 14:52	1

Client Sample ID: 15K0180-02
Lab Sample ID: 440-128144-2
Date Collected: 11/13/15 09:00
Matrix: Water
Date Received: 11/17/15 12:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		11/20/15 09:47	11/23/15 10:52	1

Client Sample ID: 15K0180-04
Lab Sample ID: 440-128144-3
Date Collected: 11/13/15 08:25
Matrix: Water
Date Received: 11/17/15 12:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND	^	0.050	0.030	mg/L		11/20/15 09:47	11/21/15 13:48	1

Client Sample ID: 15K0180-05
Lab Sample ID: 440-128144-4
Date Collected: 11/13/15 07:50
Matrix: Water
Date Received: 11/17/15 12:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		11/20/15 09:47	11/21/15 13:32	1

Client Sample ID: 15K0180-06
Lab Sample ID: 440-128144-5
Date Collected: 11/13/15 07:55
Matrix: Water
Date Received: 11/17/15 12:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND	^	0.25	0.15	mg/L		11/20/15 09:47	11/21/15 13:52	5

Method Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Client Sample ID: 15K0180-01
Date Collected: 11/13/15 09:45
Date Received: 11/17/15 12:35

Lab Sample ID: 440-128144-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	295347	11/20/15 09:43	Q1N	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	295654	11/21/15 14:52	VS	TAL IRV

Client Sample ID: 15K0180-02
Date Collected: 11/13/15 09:00
Date Received: 11/17/15 12:35

Lab Sample ID: 440-128144-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	295349	11/20/15 09:47	Q1N	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	295822	11/23/15 10:52	VS	TAL IRV

Client Sample ID: 15K0180-04
Date Collected: 11/13/15 08:25
Date Received: 11/17/15 12:35

Lab Sample ID: 440-128144-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	295349	11/20/15 09:47	Q1N	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	295653	11/21/15 13:48	VS	TAL IRV

Client Sample ID: 15K0180-05
Date Collected: 11/13/15 07:50
Date Received: 11/17/15 12:35

Lab Sample ID: 440-128144-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	295349	11/20/15 09:47	Q1N	TAL IRV
Total Recoverable	Analysis	6010B		1	25 mL	25 mL	295653	11/21/15 13:32	VS	TAL IRV

Client Sample ID: 15K0180-06
Date Collected: 11/13/15 07:55
Date Received: 11/17/15 12:35

Lab Sample ID: 440-128144-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	295349	11/20/15 09:47	Q1N	TAL IRV
Total Recoverable	Analysis	6010B		5	25 mL	25 mL	295653	11/21/15 13:52	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-295347/1-A
Matrix: Water
Analysis Batch: 295654

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 295347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		11/20/15 09:43	11/21/15 14:34	1

Lab Sample ID: LCS 440-295347/2-A
Matrix: Water
Analysis Batch: 295654

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 295347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 440-127566-F-1-B MS
Matrix: Water
Analysis Batch: 295654

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 295347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	ND		1.00	0.957		mg/L		96	75 - 125

Lab Sample ID: 440-127566-F-1-C MSD
Matrix: Water
Analysis Batch: 295654

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 295347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	ND		1.00	0.964		mg/L		96	75 - 125	1	20

Lab Sample ID: MB 440-295349/1-A
Matrix: Water
Analysis Batch: 295653

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		11/20/15 09:47	11/21/15 13:21	1

Lab Sample ID: MB 440-295349/1-A
Matrix: Water
Analysis Batch: 295822

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.050	0.030	mg/L		11/20/15 09:47	11/23/15 10:40	1

Lab Sample ID: LCS 440-295349/2-A
Matrix: Water
Analysis Batch: 295653

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCS 440-295349/2-A
Matrix: Water
Analysis Batch: 295822

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	1.00	1.02		mg/L		102	80 - 120

QC Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Lab Sample ID: 440-127750-F-2-B MS
Matrix: Water
Analysis Batch: 295653

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.034	J	1.00	0.961		mg/L		93	75 - 125

Lab Sample ID: 440-127750-F-2-B MS
Matrix: Water
Analysis Batch: 295822

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	ND		1.00	0.887		mg/L		89	75 - 125

Lab Sample ID: 440-127750-F-2-C MSD
Matrix: Water
Analysis Batch: 295653

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.034	J	1.00	0.987		mg/L		95	75 - 125	3	20

Lab Sample ID: 440-127750-F-2-C MSD
Matrix: Water
Analysis Batch: 295822

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 295349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	ND		1.00	0.893		mg/L		89	75 - 125	1	20

Electronic Filing: Received, Clerk's Office 01/29/2020

QC Association Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Metals

Prep Batch: 295347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-127566-F-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-127566-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
440-128144-1	15K0180-01	Total Recoverable	Water	3005A	
LCS 440-295347/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-295347/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 295349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-127750-F-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-127750-F-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
440-128144-2	15K0180-02	Total Recoverable	Water	3005A	
440-128144-3	15K0180-04	Total Recoverable	Water	3005A	
440-128144-4	15K0180-05	Total Recoverable	Water	3005A	
440-128144-5	15K0180-06	Total Recoverable	Water	3005A	
LCS 440-295349/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-295349/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 295653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-127750-F-2-B MS	Matrix Spike	Total Recoverable	Water	6010B	295349
440-127750-F-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	295349
440-128144-3	15K0180-04	Total Recoverable	Water	6010B	295349
440-128144-4	15K0180-05	Total Recoverable	Water	6010B	295349
440-128144-5	15K0180-06	Total Recoverable	Water	6010B	295349
LCS 440-295349/2-A	Lab Control Sample	Total Recoverable	Water	6010B	295349
MB 440-295349/1-A	Method Blank	Total Recoverable	Water	6010B	295349

Analysis Batch: 295654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-127566-F-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	295347
440-127566-F-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	295347
440-128144-1	15K0180-01	Total Recoverable	Water	6010B	295347
LCS 440-295347/2-A	Lab Control Sample	Total Recoverable	Water	6010B	295347
MB 440-295347/1-A	Method Blank	Total Recoverable	Water	6010B	295347

Analysis Batch: 295822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-127750-F-2-B MS	Matrix Spike	Total Recoverable	Water	6010B	295349
440-127750-F-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	295349
440-128144-2	15K0180-02	Total Recoverable	Water	6010B	295349
LCS 440-295349/2-A	Lab Control Sample	Total Recoverable	Water	6010B	295349
MB 440-295349/1-A	Method Blank	Total Recoverable	Water	6010B	295349

Definitions/Glossary

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Electronic Filing: Received, Clerk's Office 01/29/2020

Certification Summary

Client: Environmental Monitoring and Technologie
Project/Site: 15K0180

TestAmerica Job ID: 440-128144-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

15K0180

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Test America, Irvine, CA, Subcontract
17461 Derian, STE 100
Irvine, CA 92614-
Phone :(949) 261-1022
Fax: (949) 230-3299

440-128144 Chain of Custody

Analysis	Due (– Standard)	Expires	Laboratory ID	Comments
Sample ID: 15K0180-01 **Water**	**Sampled:11/13/15 09:45**			
ICP Metals, Lithium	~~11/20/15 12:00~~	05/11/16 09:45		PO #: 60340 for Lithium by 6010, Standard Turn
Containers Supplied:				
250 ml HDPE, 1:1 HNO3				
Sample ID: 15K0180-02 **Water**	**Sampled:11/13/15 09:00**			
ICP Metals, Lithium	~~11/20/15 12:00~~	05/11/16 09:00		PO #: 60340 for Lithium by 6010, Standard Turn
Containers Supplied:				
250 ml HDPE, 1:1 HNO3				
Sample ID: 15K0180-03 **Water**	**Sampled:01/01/80 00:00**			
ICP Metals, Lithium	~~11/20/15 12:00~~	06/29/80 00:00		PO #: 60340 for Lithium by 6010, Standard Turn
Containers Supplied:				
~~250 ml HDPE, 1:1 HNO3~~	No 03			
Sample ID: 15K0180-04 **Water**	**Sampled:11/13/15 08:25**			
ICP Metals, Lithium	~~11/20/15 12:00~~	05/11/16 08:25		PO #: 60340 for Lithium by 6010, Standard Turn
Containers Supplied:				
250 ml HDPE, 1:1 HNO3				
Sample ID: 15K0180-05 **Water**	**Sampled:11/13/15 07:50**			
ICP Metals, Lithium	~~11/20/15 12:00~~	05/11/16 07:50		PO #: 60340 for Lithium by 6010, Standard Turn
Containers Supplied:				
250 ml HDPE, 1:1 HNO3				
Sample ID: 15K0180-06 **Water**	**Sampled:01/01/80 00:00**			
ICP Metals, Lithium	~~11/20/15 12:00~~	06/29/80 00:00		PO #: 60340 for Lithium by 6010, Standard Turn
Containers Supplied:				
250 ml HDPE, 1:1 HNO3				

PO # 60340 for Lithium, 5 samples

Released By	Date	Received By	Date
	11/16/15		11/17/15 12:35
Released By	Date	Received By	Date
	11/17/15	UPS: 12-837 FOR 13 9051 2437 No Ice	11/25/2015

Electronic Filing: Received, Clerk's Office 01/29/2020

Mouton, Alain

From: Matthew Gregory [mgregory@emt.com]
Sent: Friday, November 20, 2015 6:21 AM
To: Mouton, Alain
Cc: Patel, Urvashi
Subject: RE: Discrepancy for 440-128144-1 15K0180

Alain and Urvashi,

The 06 sample was collected on 11/13/15 at 7:55 am. Sorry about that, had a few login issues on our end with this one. Thank you for checking.

Matt Gregory
Technical Manager
Direct: 847-324-3327 | Fax: 847-967-6735

Environmental Monitoring and Technologies, Inc www.emt.com
A Service Disabled Veteran Owned Small Business (SDVOSB)
Please consider the environment before printing this e-mail. Thank you!

From: Mouton, Alain [mailto:alain.mouton@testamericainc.com]
Sent: Thursday, November 19, 2015 6:11 PM
To: Mr. Matt Gregory
Cc: Urvashi Patel
Subject: Discrepancy for 440-128144-1 15K0180

Hello,

Attached please find the COC for job 440-128144-1; 15K0180.

SAMPLE ID:15K0180-06 HAS A COLLECTION TIME AT 00:00 AND DATE OF COLLECTION ON 01/01/80. IT WAS LOGGED IN AT THE SAME DATE AS OTHER SAMPLES OF 11/13/15 AND WITH A SAMPLING TIME AT 00:01.

Could you please provide us with the right date and time of collection for that sample?

Please feel free to contact your PM Urvashi Patel if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

ALAIN MOUTON
Project Management Assistant I

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [239836]
Attachments: 1

Login Sample Receipt Checklist

Client: Environmental Monitoring and Technologie

Job Number: 440-128144-1

Login Number: 128144
List Number: 1
Creator: Garcia, Veronica G

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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LABORATORY CASE NARRATIVE

Client: Environmental Monitoring Technologies Report #: 353071QC

All method QC was within acceptance limits, with the exception of:

Method 7500-Ra B

Note: The sample from site 15K0180-04 had a dirty matrix, which resulted in a high biased barium carrier recovery. Results may be low biased.

Note: The sample from site 15K0180-06 had a dirty matrix, which resulted in a high biased barium carrier recovery. Results may be low biased.

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Jennifer Van Kuiken ASM 12/15/2015

Authorized Signature Title Date

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 353071
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Copies to: None

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3359805	15K0180-01	7500-Ra B	11/13/15 09:45	Client	11/17/15 09:45
3359805	15K0180-01	7500-Ra D	11/13/15 09:45	Client	11/17/15 09:45
3359806	15K0180-02	7500-Ra B	11/13/15 09:00	Client	11/17/15 09:45
3359806	15K0180-02	7500-Ra D	11/13/15 09:00	Client	11/17/15 09:45
3359807	15K0180-04	7500-Ra B	11/13/15 08:25	Client	11/17/15 09:45
3359807	15K0180-04	7500-Ra D	11/13/15 08:25	Client	11/17/15 09:45
3359808	15K0180-05	7500-Ra B	11/13/15 07:50	Client	11/17/15 09:45
3359808	15K0180-05	7500-Ra D	11/13/15 07:50	Client	11/17/15 09:45
3359809	15K0180-06	7500-Ra B	11/13/15 07:55	Client	11/17/15 09:45
3359809	15K0180-06	7500-Ra D	11/13/15 07:55	Client	11/17/15 09:45

Report Summary

Note: See attached page for additional comments.

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jim Van Fleit ASM

Authorized Signature | Title

12/15/2015

Date

Client Name: Environmental Monitoring Technologies
Report #: 353071

Client Name: Environmental Monitoring Technologies Report #: 353071

Sampling Point: 15K0180-01 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.08	1.0	**0.29 ± 0.13**	pCi/L	11/24/15 13:20	12/04/15 09:49	3359805
15262-20-1	Radium-228	7500-Ra D	---	0.67	1.0	-0.68 ± 0.60	pCi/L	11/23/15 13:53	12/09/15 16:34	3359805
---	Combined Radium	calc.	5 *	0.67	1.0	-0.39 ± 0.61	pCi/L	11/24/15 13:20	12/09/15 16:34	3359805

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15K0180-02 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.1	1.0	**1.7 ± 0.4**	pCi/L	11/24/15 13:20	12/09/15 07:24	3359806
15262-20-1	Radium-228	7500-Ra D	---	0.4	1.0	**2.1 ± 0.4**	pCi/L	11/23/15 13:53	12/09/15 16:34	3359806
---	Combined Radium	calc.	5 *	0.4	1.0	**3.8 ± 0.6**	pCi/L	11/24/15 13:20	12/09/15 16:34	3359806

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15K0180-04 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.07	1.0	**0.21 ± 0.10**	pCi/L	11/24/15 13:20	12/04/15 09:49	3359807
15262-20-1	Radium-228	7500-Ra D	---	0.51	1.0	-0.88 ± 0.44	pCi/L	11/23/15 13:53	12/09/15 16:34	3359807
---	Combined Radium	calc.	5 *	0.51	1.0	-0.67 ± 0.45	pCi/L	11/24/15 13:20	12/09/15 16:34	3359807

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 15K0180-05 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.09	1.0	**0.55 ± 0.18**	pCi/L	11/24/15 13:20	12/04/15 09:49	3359808
15262-20-1	Radium-228	7500-Ra D	---	0.58	1.0	0.28 ± 0.56	pCi/L	11/23/15 13:53	12/09/15 16:34	3359808
---	Combined Radium	calc.	5 *	0.58	1.0	**0.83 ± 0.59**	pCi/L	11/24/15 13:20	12/09/15 16:34	3359808

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Client Name: Environmental Monitoring Technologies Report #: 353071

Sampling Point: 15K0180-06 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.09	1.0	**0.66 ± 0.19**	pCi/L	11/24/15 13:20	12/04/15 10:52	3359809
15262-20-1	Radium-228	7500-Ra D	---	0.7	1.0	**1.5 ± 0.7**	pCi/L	11/23/15 13:53	12/09/15 16:34	3359809
---	Combined Radium	calc.	5 *	0.7	1.0	**2.16 ± 0.72**	pCi/L	11/24/15 13:20	12/09/15 16:34	3359809

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

15K0180 353071 246893

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053 Client Provided Sample Container
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins (Underwriters Laboratory), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

Analysis	Due - Standard	Expires	Laboratory ID	Comments
Sample ID: 15K0180-01 Water	**Sampled:11/13/15 09:45**		3359805	
Radiation Testing, Subcontracted (2)	~~11/20/15 12:00~~	12/13/15 09:45		PO #: 60339 for Radium 226 and 228, Standard Turn
Containers Supplied: 32 oz HDPE, 1:1 HNO3 t(	32 oz HDPE, 1:1 HNO3 t(			
Sample ID: 15K0180-02 (2) Water	**Sampled:11/13/15 09:00**		3359806	
Radiation Testing, Subcontracted	~~11/20/15 12:00~~	12/13/15 09:00		PO #: 60339 for Radium 226 and 228, Standard Turn
Containers Supplied: 32 oz HDPE, 1:1 HNO3 t(	32 oz HDPE, 1:1 HNO3 t(			
Sample ID: 15K0180-03 Water	**Sampled:01/01/80 00:00**		~~3359~~	
Radiation Testing, Subcontracted	~~11/20/15 12:00~~	01/31/80 00:00	11-17-0015 RD	PO #: 60339 for Radium 226 and 228, Standard Turn
Containers Supplied: ~~32 oz HDPE, 1:1 HNO3 t(~~	~~32 oz HDPE, 1:1 HNO3 t(~~		No. 03	
Sample ID: 15K0180-04 (2) Water	**Sampled:11/13/15 08:25**		3359807	
Radiation Testing, Subcontracted	~~11/20/15 12:00~~	12/13/15 08:25		PO #: 60339 for Radium 226 and 228, Standard Turn
Containers Supplied: 32 oz HDPE, 1:1 HNO3 t(	32 oz HDPE, 1:1 HNO3 t(			
Sample ID: 15K0180-05 (2) Water	**Sampled:11/13/15 07:50**		3359808	
Radiation Testing, Subcontracted	~~11/20/15 12:00~~	12/13/15 07:50		PO #: 60339 for Radium 226 and 228, Standard Turn
Containers Supplied: 32 oz HDPE, 1:1 HNO3 t(	32 oz HDPE, 1:1 HNO3 t(			

PO # 60339 for Radium 226 and 228, 5 samples

Released By	Date	Received By	Date
	11/16/15	K Dyus	11-17-15 0945
Released By	Date	Received By	Date

Electronic Filing: Received, Clerk's Office 01/29/2020

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

15K0180

Analysis	Due – standard	Expires	Comments
	(2) 11-13-15 0755		
Sample ID: 15K0180-06 Water	Sampled:01/01/80 00:00 per Bottle	3359 809	
Radiation Testing, Subcontracted	~~11/20/15 12:00~~	01/31/80 00:00 KP	PO #: 60339 for Radium 226 and 228, Standard Turn

Containers Supplied:

32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t

Cross Offs on COC by Client

Client Provided Sample Container

Ambient

All Bottles have a pH<2

Released By	Date	Received By	Date
	11/16/15	K Dyra	11-17-15 0945
Released By	Date	Received By	Date

Environmental
Monitoring and
Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

March 28, 2016

Work Order: 16A0149

RE: List G20
1Q 2016

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 3/28/2016 2:13:55PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Technologies, Inc.

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	16A0149-01	Groundwater	02/26/16 07:55	02/26/16 14:50
AP-1	16A0149-02	Groundwater	02/26/16 10:05	02/26/16 14:50
AP-2	16A0149-03	Groundwater	02/26/16 09:15	02/26/16 14:50
AP-3	16A0149-04	Groundwater	02/26/16 08:35	02/26/16 14:50
AP-4	16A0149-05	Groundwater	02/26/16 07:50	02/26/16 14:50
AP-5	16A0149-06	Groundwater	02/26/16 07:05	02/26/16 14:50
AW-3	16A0149-01	Groundwater	02/26/16 07:55	02/26/16 14:50
AP-1	16A0149-02	Groundwater	02/26/16 10:05	02/26/16 14:50
AP-2	16A0149-03	Groundwater	02/26/16 09:15	02/26/16 14:50
AP-3	16A0149-04	Groundwater	02/26/16 08:35	02/26/16 14:50
AP-4	16A0149-05	Groundwater	02/26/16 07:50	02/26/16 14:50
AP-5	16A0149-06	Groundwater	02/26/16 07:05	02/26/16 14:50
AW-3	16A0149-01	Groundwater	02/26/16 07:55	02/26/16 14:50
AP-1	16A0149-02	Groundwater	02/26/16 10:05	02/26/16 14:50
AP-2	16A0149-03	Groundwater	02/26/16 09:15	02/26/16 14:50
AP-3	16A0149-04	Groundwater	02/26/16 08:35	02/26/16 14:50
AP-4	16A0149-05	Groundwater	02/26/16 07:50	02/26/16 14:50
AP-5	16A0149-06	Groundwater	02/26/16 07:05	02/26/16 14:50

Response to 1st RTP
CWLP - 02891

Environmental
Monitoring and
Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Case Narrative

Client: City, Water, Light & Power **Date:** 03/28/2016
Project: List G20
1Q 2016
Work Order: 16A0149

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 16A0149
The samples were received on02/26/16 14:50. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	5.0

degrees C.

Some of the analyses for this work order were subcontracted (Radium 226/ 228 and Lithium). Subcontract data and receipt information is provided.
For the Radium testing on 16A0149-01, 02, 03, and 05, the samples were decanted prior to analysis due to the amount of sediment present.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC/MS Volatiles

Method: 8260B_VOC_5035_LOW, B5I0255-BLK1: Method blank contaminations are above MDL but below MRL. These contaminates were not detected above MRL in the associated samples.

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 07:55
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**557**			uS/cm	02/26/16 07:55	B6C0037	CD
Method: SM2550-B							
Temperature	**51.7**			°F	02/26/16 07:55	B6C0037	CD
Method: SM4500-H							
pH	**7.29**	0.05		pH Units	02/26/16 07:55	B6C0037	CD
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Arsenic	**98.2**	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Barium	**177**	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Beryllium	< 2.50	2.50		ug/L	03/01/16 17:23	B6B1253	AG
Boron	**148**	12.5		ug/L	03/01/16 17:23	B6B1253	AG
Cadmium	< 2.50	2.50		ug/L	03/01/16 17:23	B6B1253	AG
Calcium	**68.6**	1.25		mg/L	03/01/16 18:10	B6B1253	AG
Chromium	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Cobalt	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Copper	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Iron	**901**	125		ug/L	03/01/16 17:23	B6B1253	AG
Lead	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Manganese	**223**	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Molybdenum	< 0.0250	0.0250		mg/L	03/01/16 17:23	B6B1253	AG
Nickel	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Selenium	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Silver	< 2.50	2.50		ug/L	03/01/16 17:23	B6B1253	AG
Thallium	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Zinc	< 25.0	25.0		ug/L	03/01/16 17:23	B6B1253	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/09/16 12:38	B6C0342	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**23.7**	3.00		mg/L	02/27/16 19:35	B6B1174	DZ1
Fluoride	< 0.500	0.500		mg/L	02/27/16 19:35	B6B1174	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/27/16 19:35	B6B1174	DZ1
Sulfate	**27.5**	5.00		mg/L	02/27/16 19:35	B6B1174	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**364**	10.0		mg/L	03/02/16 10:00	B6C0087	DN1

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AW-3
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:55
Matrix: Groundwater
Lab ID: 16A0149-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/08/16 14:09	B6C0295	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		03/04/16 16:19	B6C0170	CS2
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.496	0.496		ug/L		03/07/16 23:58	B6C0019	LP
Atrazine	< 0.496	0.496		ug/L		03/07/16 23:58	B6C0019	LP
Chlordane	< 0.496	0.496		ug/L		03/07/16 23:12	B6C0019	LP
Endrin	< 0.0496	0.0496		ug/L		03/07/16 23:12	B6C0019	LP
Lindane	< 0.0496	0.0496		ug/L		03/07/16 23:12	B6C0019	LP
Heptachlor	< 0.0496	0.0496		ug/L		03/07/16 23:12	B6C0019	LP
Heptachlor epoxide	< 0.0496	0.0496		ug/L		03/07/16 23:12	B6C0019	LP
Methoxychlor	< 0.0496	0.0496		ug/L		03/07/16 23:12	B6C0019	LP
Simazine	< 0.496	0.496		ug/L		03/07/16 23:58	B6C0019	LP
Toxaphene	< 1.98	1.98		ug/L		03/07/16 23:12	B6C0019	LP
Surrogate: Decachlorobiphenyl				*Recovery: 65%*	*Limits: 30-135*	*03/07/16 23:12*	*B6C0019*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 39%*	*Limits: 44-124*	*03/07/16 23:12*	*B6C0019*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.298	0.298		ug/L		03/02/16 11:40	B6C0023	PM1
Aroclor 1221	< 0.496	0.496		ug/L		03/02/16 11:40	B6C0023	PM1
Aroclor 1232	< 0.595	0.595		ug/L		03/02/16 11:40	B6C0023	PM1
Aroclor 1242	< 0.595	0.595		ug/L		03/02/16 11:40	B6C0023	PM1
Aroclor 1248	< 0.595	0.595		ug/L		03/02/16 11:40	B6C0023	PM1
Aroclor 1254	< 0.496	0.496		ug/L		03/02/16 11:40	B6C0023	PM1
Aroclor 1260	< 0.298	0.298		ug/L		03/02/16 11:40	B6C0023	PM1
Total PCB	< 0.992	0.992		ug/L		03/02/16 11:40	B6C0023	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 115%*	*Limits: 40-135*	*03/02/16 11:40*	*B6C0023*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 53%*	*Limits: 13-133*	*03/02/16 11:40*	*B6C0023*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/16 14:36	B6C0104	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/16 14:36	B6C0104	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L		03/03/16 18:30	B6C0079	JL
2,4-D	< 1.49	1.49		ug/L		03/03/16 18:30	B6C0079	JL
Dinoseb	< 1.49	1.49		ug/L		03/03/16 18:30	B6C0079	JL
Picloram	< 1.49	1.49		ug/L		03/03/16 18:30	B6C0079	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AW-3
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:55
Matrix: Groundwater
Lab ID: 16A0149-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 89%*	*Limits: 37-152*	*03/03/16 18:30*	*B6C0079*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Benzene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		03/03/16 20:14	B6C0188	XN
Chlorobenzene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 18:41	B6C0142	XN
Ethylbenzene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Dichloromethane	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Styrene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Tetrachloroethene	< 4.00	4.00		ug/L		03/01/16 18:41	B6C0142	XN
Toluene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 18:41	B6C0142	XN
Trichloroethene	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Vinyl chloride	< 2.00	2.00		ug/L		03/01/16 18:41	B6C0142	XN
Xylenes, Total	< 8.00	8.00		ug/L		03/01/16 18:41	B6C0142	XN
Surrogate: Dibromofluoromethane				*Recovery: 112%*	*Limits: 80-119*	*03/01/16 18:41*	*B6C0142*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 93%*	*Limits: 81-118*	*03/01/16 18:41*	*B6C0142*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*03/01/16 18:41*	*B6C0142*	*XN*
Surrogate: Toluene-d8				*Recovery: 106%*	*Limits: 89-112*	*03/01/16 18:41*	*B6C0142*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 110%*	*Limits: 85-114*	*03/01/16 18:41*	*B6C0142*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 113%*	*Limits: 70-120*	*03/01/16 18:41*	*B6C0142*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/13/16 15:46	B6C0581	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/13/16 15:46	B6C0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/25/16 16:46	B6C1036	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 81%*	*Limits: 70-130*	*03/25/16 16:46*	*B6C1036*	*LP*

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AW-3
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 07:55
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/10/16 09:43	B6C0208	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 105%*	*Limits: 20-200*	*03/10/16 09:43*	*B6C0208*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.659	0.659		ug/L		03/03/16 23:09	B6C0131	jn1
o-Dichlorobenzene	< 0.659	0.659		ug/L		03/03/16 23:09	B6C0131	jn1
p-Dichlorobenzene	< 0.659	0.659		ug/L		03/03/16 23:09	B6C0131	jn1
Benzo(a)pyrene	< 1.32	1.32		ug/L		03/03/16 23:09	B6C0131	jn1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		03/03/16 23:09	B6C0131	jn1
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		03/03/16 23:09	B6C0131	jn1
Pentachlorophenol	< 13.2	13.2		ug/L		03/03/16 23:09	B6C0131	jn1
Surrogate: 2-Fluorophenol				*Recovery: 12%*	*Limits: 4-108*	*03/03/16 23:09*	*B6C0131*	*jn1*
Surrogate: Phenol-d5				*Recovery: 8%*	*Limits: 1-101*	*03/03/16 23:09*	*B6C0131*	*jn1*
Surrogate: Nitrobenzene-d5				*Recovery: 32%*	*Limits: 23-119*	*03/03/16 23:09*	*B6C0131*	*jn1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 41%*	*Limits: 28-124*	*03/03/16 23:09*	*B6C0131*	*jn1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 54%*	*Limits: 11-102*	*03/03/16 23:09*	*B6C0131*	*jn1*
Surrogate: 4-Terphenyl-d14				*Recovery: 96%*	*Limits: 79-162*	*03/03/16 23:09*	*B6C0131*	*jn1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.43**	1		pCi/L		03/23/16 00:00	16A0149-01	UL
Radium-228	**1.6**	1		pCi/L		03/23/16 00:00	16A0149-01	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		03/07/16 00:00	16A0149-01	TEST

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-1
Project:	List G20	**Report Date:**	03/28/2016
	1Q 2016	**Collection Date:**	02/26/2016 10:05
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**758**			uS/cm	02/26/16 10:05	B6C0037	PB
Method: SM2550-B							
Temperature	**51.2**			°F	02/26/16 10:05	B6C0037	PB
Method: SM4500-H							
pH	**7.22**	0.05		pH Units	02/26/16 10:05	B6C0037	PB
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Arsenic	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Barium	**592**	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Beryllium	< 2.50	2.50		ug/L	03/01/16 17:24	B6B1253	AG
Boron	**16100**	12.5		ug/L	03/01/16 17:24	B6B1253	AG
Cadmium	< 2.50	2.50		ug/L	03/01/16 17:24	B6B1253	AG
Calcium	**234**	1.25		mg/L	03/01/16 18:11	B6B1253	AG
Chromium	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Cobalt	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Copper	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Iron	**27300**	125		ug/L	03/01/16 17:24	B6B1253	AG
Lead	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Manganese	**493**	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Molybdenum	< 0.0250	0.0250		mg/L	03/01/16 17:24	B6B1253	AG
Nickel	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Selenium	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Silver	< 2.50	2.50		ug/L	03/01/16 17:24	B6B1253	AG
Thallium	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Zinc	< 25.0	25.0		ug/L	03/01/16 17:24	B6B1253	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/09/16 12:40	B6C0342	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**45.8**	3.00		mg/L	02/27/16 20:03	B6B1174	DZ1
Fluoride	< 0.500	0.500		mg/L	02/27/16 20:03	B6B1174	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/27/16 20:03	B6B1174	DZ1
Sulfate	**594**	50.0		mg/L	03/07/16 16:07	B6C0236	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1010**	10.0		mg/L	03/02/16 10:00	B6C0087	DN1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-1
Report Date: 03/28/2016
Collection Date: 02/26/2016 10:05
Matrix: Groundwater
Lab ID: 16A0149-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/08/16 14:09	B6C0295	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		03/04/16 16:19	B6C0170	CS2
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.494	0.494		ug/L		03/08/16 00:45	B6C0019	LP
Atrazine	< 0.494	0.494		ug/L		03/08/16 00:45	B6C0019	LP
Chlordane	< 0.494	0.494		ug/L		03/07/16 23:58	B6C0019	LP
Endrin	< 0.0494	0.0494		ug/L		03/07/16 23:58	B6C0019	LP
Lindane	< 0.0494	0.0494		ug/L		03/07/16 23:58	B6C0019	LP
Heptachlor	< 0.0494	0.0494		ug/L		03/07/16 23:58	B6C0019	LP
Heptachlor epoxide	< 0.0494	0.0494		ug/L		03/07/16 23:58	B6C0019	LP
Methoxychlor	< 0.0494	0.0494		ug/L		03/07/16 23:58	B6C0019	LP
Simazine	< 0.494	0.494		ug/L		03/08/16 00:45	B6C0019	LP
Toxaphene	< 1.98	1.98		ug/L		03/07/16 23:58	B6C0019	LP
Surrogate: Decachlorobiphenyl				*Recovery: 57%*	*Limits: 30-135*	*03/07/16 23:58*	*B6C0019*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene			*S*	*Recovery: 31%*	*Limits: 44-124*	*03/07/16 23:58*	*B6C0019*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.297	0.297		ug/L		03/02/16 12:09	B6C0023	PM1
Aroclor 1221	< 0.494	0.494		ug/L		03/02/16 12:09	B6C0023	PM1
Aroclor 1232	< 0.593	0.593		ug/L		03/02/16 12:09	B6C0023	PM1
Aroclor 1242	< 0.593	0.593		ug/L		03/02/16 12:09	B6C0023	PM1
Aroclor 1248	< 0.593	0.593		ug/L		03/02/16 12:09	B6C0023	PM1
Aroclor 1254	< 0.494	0.494		ug/L		03/02/16 12:09	B6C0023	PM1
Aroclor 1260	< 0.297	0.297		ug/L		03/02/16 12:09	B6C0023	PM1
Total PCB	< 0.989	0.989		ug/L		03/02/16 12:09	B6C0023	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 118%*	*Limits: 40-135*	*03/02/16 12:09*	*B6C0023*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 58%*	*Limits: 13-133*	*03/02/16 12:09*	*B6C0023*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/16 15:09	B6C0104	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/16 15:09	B6C0104	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L		03/03/16 19:12	B6C0079	JL
2,4-D	< 1.49	1.49		ug/L		03/03/16 19:12	B6C0079	JL
Dinoseb	< 1.49	1.49		ug/L		03/03/16 19:12	B6C0079	JL
Picloram	< 1.49	1.49		ug/L		03/03/16 19:12	B6C0079	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-1
Report Date: 03/28/2016
Collection Date: 02/26/2016 10:05
Matrix: Groundwater
Lab ID: 16A0149-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 37-152*	*03/03/16 19:12*	*B6C0079*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Benzene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		03/03/16 19:44	B6C0188	XN
Chlorobenzene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 19:14	B6C0142	XN
Ethylbenzene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Dichloromethane	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Styrene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Tetrachloroethene	< 4.00	4.00		ug/L		03/01/16 19:14	B6C0142	XN
Toluene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 19:14	B6C0142	XN
Trichloroethene	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Vinyl chloride	< 2.00	2.00		ug/L		03/01/16 19:14	B6C0142	XN
Xylenes, Total	< 8.00	8.00		ug/L		03/01/16 19:14	B6C0142	XN
Surrogate: Dibromofluoromethane				*Recovery: 117%*	*Limits: 80-119*	*03/01/16 19:14*	*B6C0142*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 89%*	*Limits: 81-118*	*03/01/16 19:14*	*B6C0142*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*03/01/16 19:14*	*B6C0142*	*XN*
Surrogate: Toluene-d8				*Recovery: 107%*	*Limits: 89-112*	*03/01/16 19:14*	*B6C0142*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 109%*	*Limits: 85-114*	*03/01/16 19:14*	*B6C0142*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 111%*	*Limits: 70-120*	*03/01/16 19:14*	*B6C0142*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/13/16 16:18	B6C0581	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/13/16 16:18	B6C0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/25/16 19:24	B6C1036	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 106%*	*Limits: 70-130*	*03/25/16 19:24*	*B6C1036*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-1
Report Date: 03/28/2016
Collection Date: 02/26/2016 10:05
Matrix: Groundwater
Lab ID: 16A0149-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/10/16 10:23	B6C0208	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 86%*	*Limits: 20-200*	*03/10/16 10:23*	*B6C0208*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.663	0.663		ug/L		03/03/16 23:49	B6C0131	JN1
o-Dichlorobenzene	< 0.663	0.663		ug/L		03/03/16 23:49	B6C0131	JN1
p-Dichlorobenzene	< 0.663	0.663		ug/L		03/03/16 23:49	B6C0131	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		03/03/16 23:49	B6C0131	JN1
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		03/03/16 23:49	B6C0131	JN1
Hexachlorocyclopentadiene	< 3.32	3.32		ug/L		03/03/16 23:49	B6C0131	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		03/03/16 23:49	B6C0131	JN1
Surrogate: 2-Fluorophenol				*Recovery: 11%*	*Limits: 4-108*	*03/03/16 23:49*	*B6C0131*	*JN1*
Surrogate: Phenol-d5				*Recovery: 7%*	*Limits: 1-101*	*03/03/16 23:49*	*B6C0131*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 31%*	*Limits: 23-119*	*03/03/16 23:49*	*B6C0131*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 41%*	*Limits: 28-124*	*03/03/16 23:49*	*B6C0131*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 60%*	*Limits: 11-102*	*03/03/16 23:49*	*B6C0131*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 106%*	*Limits: 79-162*	*03/03/16 23:49*	*B6C0131*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.68**	1		pCi/L		03/23/16 00:00	16A0149-02	UL
Radium-228	**3.8**	1		pCi/L		03/23/16 00:00	16A0149-02	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		03/07/16 00:00	16A0149-02	TEST

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 09:15
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1540**			uS/cm	02/26/16 09:15	B6C0037	PB
Method: SM2550-B							
Temperature	**47.7**			°F	02/26/16 09:15	B6C0037	PB
Method: SM4500-H							
pH	**6.87**	0.05		pH Units	02/26/16 09:15	B6C0037	PB
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Arsenic	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Barium	**147**	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Beryllium	< 2.50	2.50		ug/L	03/01/16 17:26	B6B1253	AG
Boron	**4620**	12.5		ug/L	03/01/16 17:26	B6B1253	AG
Cadmium	< 2.50	2.50		ug/L	03/01/16 17:26	B6B1253	AG
Calcium	**312**	1.25		mg/L	03/01/16 18:13	B6B1253	AG
Chromium	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Cobalt	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Copper	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Iron	**15700**	125		ug/L	03/01/16 17:26	B6B1253	AG
Lead	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Manganese	**16700**	250		ug/L	03/01/16 18:13	B6B1253	AG
Molybdenum	< 0.0250	0.0250		mg/L	03/01/16 17:26	B6B1253	AG
Nickel	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Selenium	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Silver	< 2.50	2.50		ug/L	03/01/16 17:26	B6B1253	AG
Thallium	< 25.0	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Zinc	**46.1**	25.0		ug/L	03/01/16 17:26	B6B1253	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/09/16 12:42	B6C0342	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**40.7**	3.00		mg/L	02/27/16 20:30	B6B1174	DZ1
Fluoride	< 0.500	0.500		mg/L	02/27/16 20:30	B6B1174	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/27/16 20:30	B6B1174	DZ1
Sulfate	**531**	50.0		mg/L	03/07/16 16:35	B6C0236	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1200**	10.0		mg/L	03/02/16 10:00	B6C0087	DN1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-2
Report Date: 03/28/2016
Collection Date: 02/26/2016 09:15
Matrix: Groundwater
Lab ID: 16A0149-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/08/16 14:09	B6C0295	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		03/04/16 16:19	B6C0170	CS2
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.495	0.495		ug/L		03/08/16 01:31	B6C0019	LP
Atrazine	< 0.495	0.495		ug/L		03/08/16 01:31	B6C0019	LP
Chlordane	< 0.495	0.495		ug/L		03/08/16 00:45	B6C0019	LP
Endrin	< 0.0495	0.0495		ug/L		03/08/16 00:45	B6C0019	LP
Lindane	< 0.0495	0.0495		ug/L		03/08/16 00:45	B6C0019	LP
Heptachlor	< 0.0495	0.0495		ug/L		03/08/16 00:45	B6C0019	LP
Heptachlor epoxide	< 0.0495	0.0495		ug/L		03/08/16 00:45	B6C0019	LP
Methoxychlor	< 0.0495	0.0495		ug/L		03/08/16 00:45	B6C0019	LP
Simazine	< 0.495	0.495		ug/L		03/08/16 01:31	B6C0019	LP
Toxaphene	< 1.98	1.98		ug/L		03/08/16 00:45	B6C0019	LP
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 30-135*	*03/08/16 00:45*	*B6C0019*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 53%*	*Limits: 44-124*	*03/08/16 00:45*	*B6C0019*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.297	0.297		ug/L		03/02/16 12:38	B6C0023	PM1
Aroclor 1221	< 0.495	0.495		ug/L		03/02/16 12:38	B6C0023	PM1
Aroclor 1232	< 0.594	0.594		ug/L		03/02/16 12:38	B6C0023	PM1
Aroclor 1242	< 0.594	0.594		ug/L		03/02/16 12:38	B6C0023	PM1
Aroclor 1248	< 0.594	0.594		ug/L		03/02/16 12:38	B6C0023	PM1
Aroclor 1254	< 0.495	0.495		ug/L		03/02/16 12:38	B6C0023	PM1
Aroclor 1260	< 0.297	0.297		ug/L		03/02/16 12:38	B6C0023	PM1
Total PCB	< 0.990	0.990		ug/L		03/02/16 12:38	B6C0023	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 110%*	*Limits: 40-135*	*03/02/16 12:38*	*B6C0023*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 73%*	*Limits: 13-133*	*03/02/16 12:38*	*B6C0023*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/16 11:52	B6C0104	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/16 11:52	B6C0104	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.46	1.46		ug/L		03/03/16 19:54	B6C0079	JL
2,4-D	< 1.46	1.46		ug/L		03/03/16 19:54	B6C0079	JL
Dinoseb	< 1.46	1.46		ug/L		03/03/16 19:54	B6C0079	JL
Picloram	< 1.46	1.46		ug/L		03/03/16 19:54	B6C0079	JL

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-2
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 09:15
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 96%*	*Limits: 37-152*	*03/03/16 19:54*	*B6C0079*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Benzene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		03/03/16 19:14	B6C0188	XN
Chlorobenzene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 19:47	B6C0142	XN
Ethylbenzene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Dichloromethane	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Styrene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Tetrachloroethene	< 4.00	4.00		ug/L		03/01/16 19:47	B6C0142	XN
Toluene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 19:47	B6C0142	XN
Trichloroethene	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Vinyl chloride	< 2.00	2.00		ug/L		03/01/16 19:47	B6C0142	XN
Xylenes, Total	< 8.00	8.00		ug/L		03/01/16 19:47	B6C0142	XN
Surrogate: Dibromofluoromethane				*Recovery: 111%*	*Limits: 80-119*	*03/01/16 19:47*	*B6C0142*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 91%*	*Limits: 81-118*	*03/01/16 19:47*	*B6C0142*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*03/01/16 19:47*	*B6C0142*	*XN*
Surrogate: Toluene-d8				*Recovery: 109%*	*Limits: 89-112*	*03/01/16 19:47*	*B6C0142*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 109%*	*Limits: 85-114*	*03/01/16 19:47*	*B6C0142*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 112%*	*Limits: 70-120*	*03/01/16 19:47*	*B6C0142*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		03/13/16 17:20	B6C0581	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		03/13/16 17:20	B6C0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/25/16 20:03	B6C1036	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 97%*	*Limits: 70-130*	*03/25/16 20:03*	*B6C1036*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-2
Report Date: 03/28/2016
Collection Date: 02/26/2016 09:15
Matrix: Groundwater
Lab ID: 16A0149-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/10/16 11:43	B6C0208	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 105%*	*Limits: 20-200*	*03/10/16 11:43*	*B6C0208*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.663	0.663		ug/L		03/04/16 04:32	B6C0131	JN1
o-Dichlorobenzene	< 0.663	0.663		ug/L		03/04/16 04:32	B6C0131	JN1
p-Dichlorobenzene	< 0.663	0.663		ug/L		03/04/16 04:32	B6C0131	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		03/04/16 04:32	B6C0131	JN1
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		03/04/16 04:32	B6C0131	JN1
Hexachlorocyclopentadiene	< 3.32	3.32		ug/L		03/04/16 04:32	B6C0131	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		03/04/16 04:32	B6C0131	JN1
Surrogate: 2-Fluorophenol				*Recovery: 5%*	*Limits: 4-108*	*03/04/16 04:32*	*B6C0131*	*JN1*
Surrogate: Phenol-d5				*Recovery: 4%*	*Limits: 1-101*	*03/04/16 04:32*	*B6C0131*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 46%*	*Limits: 23-119*	*03/04/16 04:32*	*B6C0131*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 51%*	*Limits: 28-124*	*03/04/16 04:32*	*B6C0131*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 47%*	*Limits: 11-102*	*03/04/16 04:32*	*B6C0131*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 98%*	*Limits: 79-162*	*03/04/16 04:32*	*B6C0131*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.52**	1		pCi/L		03/23/16 00:00	16A0149-03	UL
Radium-228	**1.9**	1		pCi/L		03/23/16 00:00	16A0149-03	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		03/07/16 00:00	16A0149-03	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-3
Report Date: 03/28/2016
Collection Date: 02/26/2016 08:35
Matrix: Groundwater
Lab ID: 16A0149-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1040**			uS/cm	02/26/16 08:35	B6C0037	PB
Method: SM2550-B							
Temperature	**49.7**			°F	02/26/16 08:35	B6C0037	PB
Method: SM4500-H							
pH	**7.01**	0.05		pH Units	02/26/16 08:35	B6C0037	PB
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Arsenic	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Barium	**131**	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Beryllium	< 2.50	2.50		ug/L	03/01/16 17:28	B6B1253	AG
Boron	**16900**	12.5		ug/L	03/01/16 17:28	B6B1253	AG
Cadmium	< 2.50	2.50		ug/L	03/01/16 17:28	B6B1253	AG
Calcium	**190**	1.25		mg/L	03/01/16 18:15	B6B1253	AG
Chromium	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Cobalt	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Copper	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Iron	**15500**	125		ug/L	03/01/16 17:28	B6B1253	AG
Lead	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Manganese	**9970**	250		ug/L	03/01/16 18:15	B6B1253	AG
Molybdenum	< 0.0250	0.0250		mg/L	03/01/16 17:28	B6B1253	AG
Nickel	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Selenium	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Silver	< 2.50	2.50		ug/L	03/01/16 17:28	B6B1253	AG
Thallium	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Zinc	< 25.0	25.0		ug/L	03/01/16 17:28	B6B1253	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/09/16 12:44	B6C0342	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**40.3**	3.00		mg/L	02/27/16 20:58	B6B1174	DZ1
Fluoride	< 0.500	0.500		mg/L	02/27/16 20:58	B6B1174	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/27/16 20:58	B6B1174	DZ1
Sulfate	**310**	50.0		mg/L	03/07/16 18:26	B6C0236	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**712**	10.0		mg/L	03/02/16 10:00	B6C0087	DN1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-3
Report Date: 03/28/2016
Collection Date: 02/26/2016 08:35
Matrix: Groundwater
Lab ID: 16A0149-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/08/16 14:09	B6C0295	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		03/04/16 16:19	B6C0170	CS2
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.495	0.495		ug/L		03/08/16 02:18	B6C0019	LP
Atrazine	< 0.495	0.495		ug/L		03/08/16 02:18	B6C0019	LP
Chlordane	< 0.495	0.495		ug/L		03/08/16 01:31	B6C0019	LP
Endrin	< 0.0495	0.0495		ug/L		03/08/16 01:31	B6C0019	LP
Lindane	< 0.0495	0.0495		ug/L		03/08/16 01:31	B6C0019	LP
Heptachlor	< 0.0495	0.0495		ug/L		03/08/16 01:31	B6C0019	LP
Heptachlor epoxide	< 0.0495	0.0495		ug/L		03/08/16 01:31	B6C0019	LP
Methoxychlor	< 0.0495	0.0495		ug/L		03/08/16 01:31	B6C0019	LP
Simazine	< 0.495	0.495		ug/L		03/08/16 02:18	B6C0019	LP
Toxaphene	< 1.98	1.98		ug/L		03/08/16 01:31	B6C0019	LP
Surrogate: Decachlorobiphenyl				*Recovery: 81%*	*Limits: 30-135*	*03/08/16 01:31*	*B6C0019*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 44-124*	*03/08/16 01:31*	*B6C0019*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.297	0.297		ug/L		03/02/16 13:07	B6C0023	PM1
Aroclor 1221	< 0.495	0.495		ug/L		03/02/16 13:07	B6C0023	PM1
Aroclor 1232	< 0.594	0.594		ug/L		03/02/16 13:07	B6C0023	PM1
Aroclor 1242	< 0.594	0.594		ug/L		03/02/16 13:07	B6C0023	PM1
Aroclor 1248	< 0.594	0.594		ug/L		03/02/16 13:07	B6C0023	PM1
Aroclor 1254	< 0.495	0.495		ug/L		03/02/16 13:07	B6C0023	PM1
Aroclor 1260	< 0.297	0.297		ug/L		03/02/16 13:07	B6C0023	PM1
Total PCB	< 0.989	0.989		ug/L		03/02/16 13:07	B6C0023	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 130%*	*Limits: 40-135*	*03/02/16 13:07*	*B6C0023*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 72%*	*Limits: 13-133*	*03/02/16 13:07*	*B6C0023*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/16 12:25	B6C0104	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/16 12:25	B6C0104	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L		03/03/16 20:36	B6C0079	JL
2,4-D	< 1.49	1.49		ug/L		03/03/16 20:36	B6C0079	JL
Dinoseb	< 1.49	1.49		ug/L		03/03/16 20:36	B6C0079	JL
Picloram	< 1.49	1.49		ug/L		03/03/16 20:36	B6C0079	JL

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 08:35
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 90%*	*Limits: 37-152*	*03/03/16 20:36*	*B6C0079*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Benzene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		03/03/16 18:43	B6C0188	XN
Chlorobenzene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 20:19	B6C0142	XN
Ethylbenzene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Dichloromethane	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Styrene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Tetrachloroethene	< 4.00	4.00		ug/L		03/01/16 20:19	B6C0142	XN
Toluene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 20:19	B6C0142	XN
Trichloroethene	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Vinyl chloride	< 2.00	2.00		ug/L		03/01/16 20:19	B6C0142	XN
Xylenes, Total	< 8.00	8.00		ug/L		03/01/16 20:19	B6C0142	XN
Surrogate: Dibromofluoromethane				*Recovery: 118%*	*Limits: 80-119*	*03/01/16 20:19*	*B6C0142*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 94%*	*Limits: 81-118*	*03/01/16 20:19*	*B6C0142*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*03/01/16 20:19*	*B6C0142*	*XN*
Surrogate: Toluene-d8				*Recovery: 107%*	*Limits: 89-112*	*03/01/16 20:19*	*B6C0142*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 109%*	*Limits: 85-114*	*03/01/16 20:19*	*B6C0142*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 112%*	*Limits: 70-120*	*03/01/16 20:19*	*B6C0142*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		03/13/16 18:23	B6C0581	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		03/13/16 18:23	B6C0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/25/16 20:42	B6C1036	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 93%*	*Limits: 70-130*	*03/25/16 20:42*	*B6C1036*	*LP*

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-3
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 08:35
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/10/16 06:56	B6C0208	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 95%*	*Limits: 20-200*	*03/10/16 06:56*	*B6C0208*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.666	0.666		ug/L		03/04/16 05:12	B6C0131	JN1
o-Dichlorobenzene	< 0.666	0.666		ug/L		03/04/16 05:12	B6C0131	JN1
p-Dichlorobenzene	< 0.666	0.666		ug/L		03/04/16 05:12	B6C0131	JN1
Benzo(a)pyrene	< 1.33	1.33		ug/L		03/04/16 05:12	B6C0131	JN1
Di(2-ethylhexyl)phthalate	< 1.33	1.33		ug/L		03/04/16 05:12	B6C0131	JN1
Hexachlorocyclopentadiene	< 3.33	3.33		ug/L		03/04/16 05:12	B6C0131	JN1
Pentachlorophenol	< 13.3	13.3		ug/L		03/04/16 05:12	B6C0131	JN1
Surrogate: 2-Fluorophenol				*Recovery: 5%*	*Limits: 4-108*	*03/04/16 05:12*	*B6C0131*	*JN1*
Surrogate: Phenol-d5				*Recovery: 4%*	*Limits: 1-101*	*03/04/16 05:12*	*B6C0131*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 42%*	*Limits: 23-119*	*03/04/16 05:12*	*B6C0131*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 48%*	*Limits: 28-124*	*03/04/16 05:12*	*B6C0131*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 43%*	*Limits: 11-102*	*03/04/16 05:12*	*B6C0131*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 90%*	*Limits: 79-162*	*03/04/16 05:12*	*B6C0131*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.23**	1		pCi/L		03/23/16 00:00	16A0149-04	UL
Radium-228	**1.6**	1		pCi/L		03/23/16 00:00	16A0149-04	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		03/07/16 00:00	16A0149-04	TEST

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-4
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 07:50
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**786**			uS/cm	02/26/16 07:50	B6C0037	PB
Method: SM2550-B							
Temperature	**49.7**			°F	02/26/16 07:50	B6C0037	PB
Method: SM4500-H							
pH	**7.39**	0.05		pH Units	02/26/16 07:50	B6C0037	PB
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Arsenic	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Barium	**322**	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Beryllium	< 2.50	2.50		ug/L	03/01/16 17:02	B6B1253	AG
Boron	**78.3**	12.5		ug/L	03/01/16 17:02	B6B1253	AG
Cadmium	< 2.50	2.50		ug/L	03/01/16 17:02	B6B1253	AG
Calcium	**125**	1.25		mg/L	03/01/16 18:08	B6B1253	AG
Chromium	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Cobalt	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Copper	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Iron	**12200**	125		ug/L	03/01/16 17:02	B6B1253	AG
Lead	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Manganese	**259**	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Molybdenum	< 0.0250	0.0250		mg/L	03/01/16 17:02	B6B1253	AG
Nickel	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Selenium	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Silver	< 2.50	2.50		ug/L	03/01/16 17:02	B6B1253	AG
Thallium	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Zinc	< 25.0	25.0		ug/L	03/01/16 17:02	B6B1253	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	02/29/16 15:05	B6B1220	MB1
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**11.3**	3.00		mg/L	02/27/16 21:26	B6B1174	DZ1
Fluoride	< 0.500	0.500		mg/L	02/27/16 21:26	B6B1174	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/27/16 21:26	B6B1174	DZ1
Sulfate	< 5.00	5.00		mg/L	02/27/16 21:26	B6B1174	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**492**	10.0		mg/L	03/01/16 07:50	B6C0002	DN1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-4
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:50
Matrix: Groundwater
Lab ID: 16A0149-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/01/16 11:29	B6C0004	CS2
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	**0.0117**	0.0100		mg/L		03/02/16 15:30	B6C0080	AP1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.475	0.475		ug/L		03/08/16 03:04	B6C0019	LP
Atrazine	< 0.475	0.475		ug/L		03/08/16 03:04	B6C0019	LP
Chlordane	< 0.475	0.475		ug/L		03/08/16 02:18	B6C0019	LP
Endrin	< 0.0475	0.0475		ug/L		03/08/16 02:18	B6C0019	LP
Lindane	< 0.0475	0.0475		ug/L		03/08/16 02:18	B6C0019	LP
Heptachlor	< 0.0475	0.0475		ug/L		03/08/16 02:18	B6C0019	LP
Heptachlor epoxide	< 0.0475	0.0475		ug/L		03/08/16 02:18	B6C0019	LP
Methoxychlor	< 0.0475	0.0475		ug/L		03/08/16 02:18	B6C0019	LP
Simazine	< 0.475	0.475		ug/L		03/08/16 03:04	B6C0019	LP
Toxaphene	< 1.90	1.90		ug/L		03/08/16 02:18	B6C0019	LP
Surrogate: Decachlorobiphenyl				*Recovery: 74%*	*Limits: 30-135*	*03/08/16 02:18*	*B6C0019*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 44-124*	*03/08/16 02:18*	*B6C0019*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.285	0.285		ug/L		03/02/16 13:36	B6C0023	PM1
Aroclor 1221	< 0.475	0.475		ug/L		03/02/16 13:36	B6C0023	PM1
Aroclor 1232	< 0.570	0.570		ug/L		03/02/16 13:36	B6C0023	PM1
Aroclor 1242	< 0.570	0.570		ug/L		03/02/16 13:36	B6C0023	PM1
Aroclor 1248	< 0.570	0.570		ug/L		03/02/16 13:36	B6C0023	PM1
Aroclor 1254	< 0.475	0.475		ug/L		03/02/16 13:36	B6C0023	PM1
Aroclor 1260	< 0.285	0.285		ug/L		03/02/16 13:36	B6C0023	PM1
Total PCB	< 0.950	0.950		ug/L		03/02/16 13:36	B6C0023	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 128%*	*Limits: 40-135*	*03/02/16 13:36*	*B6C0023*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 67%*	*Limits: 13-133*	*03/02/16 13:36*	*B6C0023*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/16 12:58	B6C0104	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/16 12:58	B6C0104	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.45	1.45		ug/L		03/03/16 21:18	B6C0079	JL
2,4-D	< 1.45	1.45		ug/L		03/03/16 21:18	B6C0079	JL
Dinoseb	< 1.45	1.45		ug/L		03/03/16 21:18	B6C0079	JL
Picloram	< 1.45	1.45		ug/L		03/03/16 21:18	B6C0079	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-4
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:50
Matrix: Groundwater
Lab ID: 16A0149-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 84%*	*Limits: 37-152*	*03/03/16 21:18*	*B6C0079*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Benzene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		03/03/16 18:13	B6C0188	XN
Chlorobenzene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 20:51	B6C0142	XN
Ethylbenzene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Dichloromethane	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Styrene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Tetrachloroethene	< 4.00	4.00		ug/L		03/01/16 20:51	B6C0142	XN
Toluene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 20:51	B6C0142	XN
Trichloroethene	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Vinyl chloride	< 2.00	2.00		ug/L		03/01/16 20:51	B6C0142	XN
Xylenes, Total	< 8.00	8.00		ug/L		03/01/16 20:51	B6C0142	XN
Surrogate: Dibromofluoromethane				*Recovery: 119%*	*Limits: 80-119*	*03/01/16 20:51*	*B6C0142*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 87%*	*Limits: 81-118*	*03/01/16 20:51*	*B6C0142*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*03/01/16 20:51*	*B6C0142*	*XN*
Surrogate: Toluene-d8				*Recovery: 105%*	*Limits: 89-112*	*03/01/16 20:51*	*B6C0142*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 111%*	*Limits: 85-114*	*03/01/16 20:51*	*B6C0142*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 113%*	*Limits: 70-120*	*03/01/16 20:51*	*B6C0142*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/13/16 18:54	B6C0581	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/13/16 18:54	B6C0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/25/16 21:22	B6C1036	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 102%*	*Limits: 70-130*	*03/25/16 21:22*	*B6C1036*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-4
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:50
Matrix: Groundwater
Lab ID: 16A0149-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/10/16 07:36	B6C0208	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 113%*	*Limits: 20-200*	*03/10/16 07:36*	*B6C0208*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.659	0.659		ug/L		03/04/16 05:52	B6C0131	JN1
o-Dichlorobenzene	< 0.659	0.659		ug/L		03/04/16 05:52	B6C0131	JN1
p-Dichlorobenzene	< 0.659	0.659		ug/L		03/04/16 05:52	B6C0131	JN1
Benzo(a)pyrene	< 1.32	1.32		ug/L		03/04/16 05:52	B6C0131	JN1
Di(2-ethylhexyl)phthalate	< 1.32	1.32		ug/L		03/04/16 05:52	B6C0131	JN1
Hexachlorocyclopentadiene	< 3.30	3.30		ug/L		03/04/16 05:52	B6C0131	JN1
Pentachlorophenol	< 13.2	13.2		ug/L		03/04/16 05:52	B6C0131	JN1
Surrogate: 2-Fluorophenol				*Recovery: 18%*	*Limits: 4-108*	*03/04/16 05:52*	*B6C0131*	*JN1*
Surrogate: Phenol-d5				*Recovery: 12%*	*Limits: 1-101*	*03/04/16 05:52*	*B6C0131*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 47%*	*Limits: 23-119*	*03/04/16 05:52*	*B6C0131*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 52%*	*Limits: 28-124*	*03/04/16 05:52*	*B6C0131*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 51%*	*Limits: 11-102*	*03/04/16 05:52*	*B6C0131*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 84%*	*Limits: 79-162*	*03/04/16 05:52*	*B6C0131*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.45**	1		pCi/L		03/23/16 00:00	16A0149-05	UL
Radium-228	**2.2**	1		pCi/L		03/23/16 00:00	16A0149-05	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		03/07/16 00:00	16A0149-05	TEST

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Client Sample Results

(Continued)

Client:	City, Water, Light & Power	**Client Sample ID:**	AP-5
Project:	List G20 1Q 2016	**Report Date:**	03/28/2016
		Collection Date:	02/26/2016 07:05
Work Order:	16A0149	**Matrix:**	Groundwater
		Lab ID:	16A0149-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**543**			uS/cm	02/26/16 07:05	B6C0037	PB
Method: SM2550-B							
Temperature	**52.8**			°F	02/26/16 07:05	B6C0037	PB
Method: SM4500-H							
pH	**7.66**	0.05		pH Units	02/26/16 07:05	B6C0037	PB
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Arsenic	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Barium	**61.8**	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Beryllium	< 2.50	2.50		ug/L	03/01/16 17:30	B6B1253	AG
Boron	**69.9**	12.5		ug/L	03/01/16 17:30	B6B1253	AG
Cadmium	< 2.50	2.50		ug/L	03/01/16 17:30	B6B1253	AG
Calcium	**98.1**	1.25		mg/L	03/01/16 18:17	B6B1253	AG
Chromium	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Cobalt	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Copper	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Iron	**2970**	125		ug/L	03/01/16 17:30	B6B1253	AG
Lead	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Manganese	**116**	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Molybdenum	< 0.0250	0.0250		mg/L	03/01/16 17:30	B6B1253	AG
Nickel	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Selenium	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Silver	< 2.50	2.50		ug/L	03/01/16 17:30	B6B1253	AG
Thallium	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Zinc	< 25.0	25.0		ug/L	03/01/16 17:30	B6B1253	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/09/16 12:46	B6C0342	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	02/27/16 21:54	B6B1174	DZ1
Fluoride	< 0.500	0.500		mg/L	02/27/16 21:54	B6B1174	DZ1
Nitrogen, Nitrate	**1.32**	0.500		mg/L	02/27/16 21:54	B6B1174	DZ1
Sulfate	**54.3**	5.00		mg/L	02/27/16 21:54	B6B1174	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**358**	10.0		mg/L	03/02/16 10:00	B6C0087	DN1

Response to 1st RTP
CWLP - 02913

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-5
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:05
Matrix: Groundwater
Lab ID: 16A0149-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		03/08/16 14:09	B6C0295	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		03/04/16 16:19	B6C0170	CS2
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.479	0.479		ug/L		03/08/16 03:51	B6C0019	LP
Atrazine	< 0.479	0.479		ug/L		03/08/16 03:51	B6C0019	LP
Chlordane	< 0.479	0.479		ug/L		03/08/16 03:04	B6C0019	LP
Endrin	< 0.0479	0.0479		ug/L		03/08/16 03:04	B6C0019	LP
Lindane	< 0.0479	0.0479		ug/L		03/08/16 03:04	B6C0019	LP
Heptachlor	< 0.0479	0.0479		ug/L		03/08/16 03:04	B6C0019	LP
Heptachlor epoxide	< 0.0479	0.0479		ug/L		03/08/16 03:04	B6C0019	LP
Methoxychlor	< 0.0479	0.0479		ug/L		03/08/16 03:04	B6C0019	LP
Simazine	< 0.479	0.479		ug/L		03/08/16 03:51	B6C0019	LP
Toxaphene	< 1.92	1.92		ug/L		03/08/16 03:04	B6C0019	LP
Surrogate: Decachlorobiphenyl				*Recovery: 89%*	*Limits: 30-135*	*03/08/16 03:04*	*B6C0019*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 44-124*	*03/08/16 03:04*	*B6C0019*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.287	0.287		ug/L		03/02/16 14:05	B6C0023	PM1
Aroclor 1221	< 0.479	0.479		ug/L		03/02/16 14:05	B6C0023	PM1
Aroclor 1232	< 0.575	0.575		ug/L		03/02/16 14:05	B6C0023	PM1
Aroclor 1242	< 0.575	0.575		ug/L		03/02/16 14:05	B6C0023	PM1
Aroclor 1248	< 0.575	0.575		ug/L		03/02/16 14:05	B6C0023	PM1
Aroclor 1254	< 0.479	0.479		ug/L		03/02/16 14:05	B6C0023	PM1
Aroclor 1260	< 0.287	0.287		ug/L		03/02/16 14:05	B6C0023	PM1
Total PCB	< 0.958	0.958		ug/L		03/02/16 14:05	B6C0023	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 131%*	*Limits: 40-135*	*03/02/16 14:05*	*B6C0023*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 64%*	*Limits: 13-133*	*03/02/16 14:05*	*B6C0023*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		03/02/16 14:00	B6C0104	MNN
Carbofuran	< 2.00	2.00		ug/L		03/02/16 14:00	B6C0104	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.47	1.47		ug/L		03/03/16 22:00	B6C0079	JL
2,4-D	< 1.47	1.47		ug/L		03/03/16 22:00	B6C0079	JL
Dinoseb	< 1.47	1.47		ug/L		03/03/16 22:00	B6C0079	JL
Picloram	< 1.47	1.47		ug/L		03/03/16 22:00	B6C0079	JL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-5
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:05
Matrix: Groundwater
Lab ID: 16A0149-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 90%*	*Limits: 37-152*	*03/03/16 22:00*	*B6C0079*	*JL*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Benzene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		03/03/16 17:43	B6C0188	XN
Chlorobenzene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 21:24	B6C0142	XN
Ethylbenzene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Dichloromethane	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Styrene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Tetrachloroethene	< 4.00	4.00		ug/L		03/01/16 21:24	B6C0142	XN
Toluene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		03/01/16 21:24	B6C0142	XN
Trichloroethene	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Vinyl chloride	< 2.00	2.00		ug/L		03/01/16 21:24	B6C0142	XN
Xylenes, Total	< 8.00	8.00		ug/L		03/01/16 21:24	B6C0142	XN
Surrogate: Dibromofluoromethane			*S*	*Recovery: 121%*	*Limits: 80-119*	*03/01/16 21:24*	*B6C0142*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 90%*	*Limits: 81-118*	*03/01/16 21:24*	*B6C0142*	*XN*
Surrogate: Fluorobenzene				*Recovery: 101%*	*Limits: 80-116*	*03/01/16 21:24*	*B6C0142*	*XN*
Surrogate: Toluene-d8				*Recovery: 103%*	*Limits: 89-112*	*03/01/16 21:24*	*B6C0142*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 110%*	*Limits: 85-114*	*03/01/16 21:24*	*B6C0142*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 112%*	*Limits: 70-120*	*03/01/16 21:24*	*B6C0142*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		03/13/16 19:26	B6C0581	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		03/13/16 19:26	B6C0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 0.500	0.500		ug/L		03/25/16 22:01	B6C1036	LP
Surrogate: 2,4-Dichlorophenylacetic acid	-			*Recovery: 100%*	*Limits: 70-130*	*03/25/16 22:01*	*B6C1036*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2016
Work Order: 16A0149

Client Sample ID: AP-5
Report Date: 03/28/2016
Collection Date: 02/26/2016 07:05
Matrix: Groundwater
Lab ID: 16A0149-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/10/16 13:04	B6C0208	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 88%*	*Limits: 20-200*	*03/10/16 13:04*	*B6C0208*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 0.657	0.657		ug/L		03/04/16 06:33	B6C0131	JN1
o-Dichlorobenzene	< 0.657	0.657		ug/L		03/04/16 06:33	B6C0131	JN1
p-Dichlorobenzene	< 0.657	0.657		ug/L		03/04/16 06:33	B6C0131	JN1
Benzo(a)pyrene	< 1.31	1.31		ug/L		03/04/16 06:33	B6C0131	JN1
Di(2-ethylhexyl)phthalate	< 1.31	1.31		ug/L		03/04/16 06:33	B6C0131	JN1
Hexachlorocyclopentadiene	< 3.29	3.29		ug/L		03/04/16 06:33	B6C0131	JN1
Pentachlorophenol	< 13.1	13.1		ug/L		03/04/16 06:33	B6C0131	JN1
Surrogate: 2-Fluorophenol				*Recovery: 15%*	*Limits: 4-108*	*03/04/16 06:33*	*B6C0131*	*JN1*
Surrogate: Phenol-d5				*Recovery: 9%*	*Limits: 1-101*	*03/04/16 06:33*	*B6C0131*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 35%*	*Limits: 23-119*	*03/04/16 06:33*	*B6C0131*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 41%*	*Limits: 28-124*	*03/04/16 06:33*	*B6C0131*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 43%*	*Limits: 11-102*	*03/04/16 06:33*	*B6C0131*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 87%*	*Limits: 79-162*	*03/04/16 06:33*	*B6C0131*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.26**	1		pCi/L		03/23/16 00:00	16A0149-06	UL
Radium-228	**-2.9**	1		pCi/L		03/23/16 00:00	16A0149-06	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010B								
Lithium	< 0.05	0.05		mg/L		03/07/16 00:00	16A0149-06	TEST

Electronic Filing: Received, Clerk's Office 01/29/2020

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Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 16A0149

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5
Expedited (days):
Due Date: 1/12/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3	2/26/16	07:55	G	W	22	3	1	3	11	1	2	1				ONTRODEPCHILLUNDS?
AP-1			G	W	22	3	1	3	11	1	2	1				CORRTION 3/4 3/26
AP-2			G	W	22	3	1	3	11	1	2	1				
AP-3			G	W	22	3	1	3	11	1	2	1				
AP-4			G	W	22	3	1	3	11	1	2	1				
AP-5			G	W	22	3	1	3	11	1	2	1				

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	2/26/16 11:25	Peter Bush	2/26/16 1130		
Relinquished By: Peter Bush	Date/Time: 2/26/16 1450	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time: 2/26/16 14:50		
Cooler Numbers and Temperatures: 5					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7=7.00 @ 07:15, 10:45

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 16A0149

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	{none}
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: P. Brahmer	Sampler Signature: Patrick Brahmer

Requested Analyses: SW8260B; E531.1; SM7500::SW6020A::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5
Expedited (days):
Due Date: 1/12/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
~~AW-3~~	—	—	~~G~~	~~W~~	~~22~~	~~3~~	~~1~~	~~3~~	~~11~~	~~1~~	~~2~~	~~1~~				
AP-1	2/26/16	1005	G	W	22	3	1	3	11	1	2	1				CAPPED WITH HOLE - NO PRESS
AP-2	2/26/16	0915	G	W	22	3	1	3	11	1	2	1				CAPPED WITH HOLE - NO PRESS
AP-3	2/26/16	0835	G	W	22	3	1	3	11	1	2	1				CAPPED WITH HOLE - NO PRESS
AP-4	2/26/16	0750	G	W	22	3	1	3	11	1	2	1				CAPPED WITH HOLE - NO PRESS
AP-5	2/26/16	0705	G	W	22	3	1	3	11	1	2	1				CAPPED WITH HOLE - NO PRESS

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Patrick Brahmer	2/26/16 1450				
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 2/26/16 1450		
Cooler Numbers and Temperatures: 5					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

Cal pH 7.0 = 7.0 @ 0650, 0945

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

June 17, 2016

Work Order: 16E0241

RE: List G20
2Q 2016

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 6/17/2016 5:00:38PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	16E0241-01	Groundwater	05/13/16 11:55	05/13/16 15:30
AP-1	16E0241-02	Groundwater	05/13/16 08:50	05/13/16 15:30
AP-2	16E0241-03	Groundwater	05/13/16 08:05	05/13/16 15:30
AP-3	16E0241-04	Groundwater	05/13/16 07:25	05/13/16 15:30
AP-4	16E0241-05	Groundwater	05/13/16 07:30	05/13/16 15:30
AP-5	16E0241-06	Groundwater	05/13/16 07:35	05/13/16 15:30
AW-3	16E0241-01	Groundwater	05/13/16 11:55	05/13/16 15:30
AP-1	16E0241-02	Groundwater	05/13/16 08:50	05/13/16 15:30
AP-2	16E0241-03	Groundwater	05/13/16 08:05	05/13/16 15:30
AP-3	16E0241-04	Groundwater	05/13/16 07:25	05/13/16 15:30
AP-4	16E0241-05	Groundwater	05/13/16 07:30	05/13/16 15:30
AP-5	16E0241-06	Groundwater	05/13/16 07:35	05/13/16 15:30
AW-3	16E0241-01	Groundwater	05/13/16 11:55	05/13/16 15:30
AP-1	16E0241-02	Groundwater	05/13/16 08:50	05/13/16 15:30
AP-2	16E0241-03	Groundwater	05/13/16 08:05	05/13/16 15:30
AP-3	16E0241-04	Groundwater	05/13/16 07:25	05/13/16 15:30
AP-4	16E0241-05	Groundwater	05/13/16 07:30	05/13/16 15:30
AP-5	16E0241-06	Groundwater	05/13/16 07:35	05/13/16 15:30

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Case Narrative

Client: City, Water, Light & Power **Date:** 06/17/2016
Project: List G20
2Q 2016
Work Order: 16E0241

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 16E0241
The samples were received on05/13/16 15:30. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	7.0

degrees C.

Some of the analyses for this work order were subcontracted (Lithium and Radium 226 and 228). Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed. The Radium samples were decanted to remove sediments prior to the analysis.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

HPLC

Method: 8321_HERB, 16E0241-04, 05, 06: Samples were extracted on the last day of hold time.

GC Semivolatiles

Method: 8081B_PEST, B6E0791-BS2/BSD2: The recovery for one spike compound in the LCS/LCSD was above the QC limits. Compound in question was not detected in the associated sample.

Method: 8081B_PEST, B6E0761-MS1/MSD1: RPDs for three spike compounds were outside of the limits. The recoveries for five spike compounds were below the QC limits. The LCS associated with the sample is acceptable.

Method: 8081B_PEST, S6F0085-CCV1: The recovery of one compounds in the CCV was above the limit, however this compound was not detected in the associated samples.

Method: 8081B_PEST, S6F0085-CCV3: The recoveries of some compounds in the bracketing CCV were above the limits, however these compounds were not detected in the associated samples.

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GC/MS Semivolatiles

Method: 8270D_SVOC, S6F0051-CCV1: The percent recovery for one poor behaving analyte was biased low outside laboratory control limits in the CCV. Compound in question was not detected in the associated samples.

Method: 8270D_SVOC, S6F0188-CCV1: The percent recovery for one poor behaving analyte was biased low outside laboratory control limits in the CCV. Compound in question was not detected in the associated samples.

Method: 8270D_SVOC, 16E0241-03: One surrogate recovery was outside of the laboratory QC limit, most likely due to matrix.

Method: 548_Endothall, B6E0802-BS1: The recovery for one spike compound in the BS was below the laboratory control limit.

Method: 548_Endothall, B6E0802-MS1: The recovery for one spike compound in the MS was below the laboratory control limit.

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AW-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 11:55
Matrix: Groundwater
Lab ID: 16E0241-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**619**			uS/cm	05/13/16 11:55	B6E0750	CD
Method: SM2550-B							
Temperature	**57.2**			°F	05/13/16 11:55	B6E0750	CD
Method: SM4500-H							
pH	**7.49**	0.05		pH Units	05/13/16 11:55	B6E0750	CD
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Arsenic	**169**	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Barium	**236**	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Beryllium	< 2.50	2.50		ug/L	05/20/16 11:58	B6E0766	AG
Boron	**132**	12.5		ug/L	05/20/16 11:58	B6E0766	AG
Cadmium	< 2.50	2.50		ug/L	05/20/16 11:58	B6E0766	AG
Calcium	**80.3**	2.50		mg/L	05/20/16 12:17	B6E0766	AG
Chromium	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Cobalt	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Copper	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Iron	**25700**	125		ug/L	05/20/16 11:58	B6E0766	AG
Lead	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Manganese	**840**	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/20/16 11:58	B6E0766	AG
Nickel	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Selenium	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Silver	< 2.50	2.50		ug/L	05/20/16 11:58	B6E0766	AG
Thallium	< 25.0	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Zinc	**259**	25.0		ug/L	05/20/16 11:58	B6E0766	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/20/16 11:42	B6E0776	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**22.8**	3.00		mg/L	05/14/16 02:34	B6E0542	DZ1
Fluoride	< 0.500	0.500		mg/L	05/14/16 02:34	B6E0542	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/14/16 02:34	B6E0542	DZ1
Sulfate	**27.9**	5.00		mg/L	05/14/16 02:34	B6E0542	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**458**	10.0		mg/L	05/19/16 16:00	B6E0753	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AW-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 11:55
Matrix: Groundwater
Lab ID: 16E0241-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/20/16 14:29	B6E0788	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		05/31/16 11:08	B6E1207	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.527	0.527		ug/L		05/31/16 18:20	B6E0761	LP
Atrazine	< 0.527	0.527		ug/L		05/31/16 18:20	B6E0761	LP
Chlordane	< 0.527	0.527		ug/L		05/31/16 18:20	B6E0761	LP
Endrin	< 0.0527	0.0527		ug/L		05/31/16 18:20	B6E0761	LP
gamma-BHC	< 0.0527	0.0527		ug/L		05/31/16 18:20	B6E0761	LP
Heptachlor	< 0.0527	0.0527		ug/L		05/31/16 18:20	B6E0761	LP
Heptachlor epoxide	< 0.0527	0.0527		ug/L		05/31/16 18:20	B6E0761	LP
Methoxychlor	< 0.0527	0.0527		ug/L		05/31/16 18:20	B6E0761	LP
Simazine	< 0.527	0.527		ug/L		05/31/16 18:20	B6E0761	LP
Toxaphene	< 2.11	2.11		ug/L		05/31/16 18:20	B6E0761	LP
Surrogate: Decachlorobiphenyl				*Recovery: 69%*	*Limits: 30-109*	*05/31/16 18:20*	*B6E0761*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 21-124*	*05/31/16 18:20*	*B6E0761*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.316	0.316		ug/L		05/23/16 21:17	B6E0784	PM1
Aroclor 1221	< 0.527	0.527		ug/L		05/23/16 21:17	B6E0784	PM1
Aroclor 1232	< 0.632	0.632		ug/L		05/23/16 21:17	B6E0784	PM1
Aroclor 1242	< 0.632	0.632		ug/L		05/23/16 21:17	B6E0784	PM1
Aroclor 1248	< 0.632	0.632		ug/L		05/23/16 21:17	B6E0784	PM1
Aroclor 1254	< 0.527	0.527		ug/L		05/23/16 21:17	B6E0784	PM1
Aroclor 1260	< 0.316	0.316		ug/L		05/23/16 21:17	B6E0784	PM1
Total PCB	< 1.05	1.05		ug/L		05/23/16 21:17	B6E0784	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 40-135*	*05/23/16 21:17*	*B6E0784*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 75%*	*Limits: 13-133*	*05/23/16 21:17*	*B6E0784*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		05/24/16 11:16	B6E0922	AMP
Carbofuran	< 2.00	2.00		ug/L		05/24/16 11:16	B6E0922	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.809	0.809		ug/L		05/24/16 13:36	B6E0748	AMP
2,4-D	< 0.809	0.809		ug/L		05/24/16 13:36	B6E0748	AMP
Dinoseb	< 0.809	0.809		ug/L		05/24/16 13:36	B6E0748	AMP
Picloram	< 0.809	0.809		ug/L		05/24/16 13:36	B6E0748	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AW-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 11:55
Matrix: Groundwater
Lab ID: 16E0241-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 75%*	*Limits: 37-152*	*05/24/16 13:36*	*B6E0748*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Benzene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		05/17/16 07:14	B6E0643	XN
Chlorobenzene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/17/16 07:14	B6E0643	XN
Ethylbenzene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Dichloromethane	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Styrene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Tetrachloroethene	< 4.00	4.00		ug/L		05/17/16 07:14	B6E0643	XN
Toluene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/17/16 07:14	B6E0643	XN
Trichloroethene	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Vinyl chloride	< 2.00	2.00		ug/L		05/17/16 07:14	B6E0643	XN
Xylenes, Total	< 8.00	8.00		ug/L		05/17/16 07:14	B6E0643	XN
Surrogate: Dibromofluoromethane			*S*	*Recovery: 127%*	*Limits: 80-119*	*05/17/16 07:14*	*B6E0643*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 130%*	*Limits: 81-118*	*05/17/16 07:14*	*B6E0643*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/17/16 07:14*	*B6E0643*	*XN*
Surrogate: Toluene-d8				*Recovery: 90%*	*Limits: 89-112*	*05/17/16 07:14*	*B6E0643*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 91%*	*Limits: 85-114*	*05/17/16 07:14*	*B6E0643*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 120%*	*Limits: 70-120*	*05/17/16 07:14*	*B6E0643*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		05/20/16 21:20	B6E1103	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		05/20/16 21:20	B6E1103	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		06/12/16 00:29	B6F0700	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 96%*	*Limits: 70-130*	*06/12/16 00:29*	*B6F0700*	*LP*

Response to 1st RTP
CWLP - 02926

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AW-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 11:55
Matrix: Groundwater
Lab ID: 16E0241-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/24/16 02:00	B6E0802	BW1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 172%*	*Limits: 20-200*	*05/24/16 02:00*	*B6E0802*	*BW1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.22	5.22		ug/L		06/09/16 15:08	B6E0801	JN1
o-Dichlorobenzene	< 5.22	5.22		ug/L		06/09/16 15:08	B6E0801	JN1
p-Dichlorobenzene	< 5.22	5.22		ug/L		06/09/16 15:08	B6E0801	JN1
Benzo(a)pyrene	< 10.4	10.4		ug/L		06/09/16 15:08	B6E0801	JN1
Di(2-ethylhexyl)phthalate	< 10.4	10.4		ug/L		06/09/16 15:08	B6E0801	JN1
Hexachlorocyclopentadiene	< 26.1	26.1		ug/L		06/09/16 15:08	B6E0801	JN1
Pentachlorophenol	< 104	104		ug/L		06/09/16 15:08	B6E0801	JN1
Surrogate: 2-Fluorophenol				*Recovery: 27%*	*Limits: 4-108*	*06/09/16 15:08*	*B6E0801*	*JN1*
Surrogate: Phenol-d5				*Recovery: 16%*	*Limits: 1-101*	*06/09/16 15:08*	*B6E0801*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 47%*	*Limits: 23-119*	*06/09/16 15:08*	*B6E0801*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 47%*	*Limits: 28-124*	*06/09/16 15:08*	*B6E0801*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 49%*	*Limits: 11-102*	*06/09/16 15:08*	*B6E0801*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 90%*	*Limits: 79-162*	*06/09/16 15:08*	*B6E0801*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.77**	1		pCi/L		06/08/16 00:00	16E0241-01	UL
Radium-228	**0.8**	1		pCi/L		06/08/16 00:00	16E0241-01	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		05/20/16 00:00	16E0241-01	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-1
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:50
Matrix: Groundwater
Lab ID: 16E0241-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1460**			uS/cm	05/13/16 08:50	B6E0750	CD
Method: SM2550-B							
Temperature	**57.3**			°F	05/13/16 08:50	B6E0750	CD
Method: SM4500-H							
pH	**6.76**	0.05		pH Units	05/13/16 08:50	B6E0750	CD
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Arsenic	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Barium	**578**	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Beryllium	< 2.50	2.50		ug/L	05/20/16 11:59	B6E0766	AG
Boron	**17200**	250		ug/L	05/20/16 12:19	B6E0766	AG
Cadmium	< 2.50	2.50		ug/L	05/20/16 11:59	B6E0766	AG
Calcium	**209**	2.50		mg/L	05/20/16 12:19	B6E0766	AG
Chromium	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Cobalt	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Copper	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Iron	**25600**	125		ug/L	05/20/16 11:59	B6E0766	AG
Lead	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Manganese	**398**	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/20/16 11:59	B6E0766	AG
Nickel	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Selenium	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Silver	< 2.50	2.50		ug/L	05/20/16 11:59	B6E0766	AG
Thallium	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Zinc	< 25.0	25.0		ug/L	05/20/16 11:59	B6E0766	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/20/16 11:55	B6E0776	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**46.2**	3.00		mg/L	05/14/16 03:02	B6E0542	DZ1
Fluoride	< 0.500	0.500		mg/L	05/14/16 03:02	B6E0542	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/14/16 03:02	B6E0542	DZ1
Sulfate	**597**	50.0		mg/L	05/16/16 21:54	B6E0593	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1430**	10.0		mg/L	05/19/16 16:00	B6E0753	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-1
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:50
Matrix: Groundwater
Lab ID: 16E0241-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/20/16 14:29	B6E0788	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		05/31/16 11:08	B6E1207	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.507	0.507		ug/L		05/31/16 19:06	B6E0761	LP
Atrazine	< 0.507	0.507		ug/L		05/31/16 19:06	B6E0761	LP
Chlordane	< 0.507	0.507		ug/L		05/31/16 19:06	B6E0761	LP
Endrin	< 0.0507	0.0507		ug/L		05/31/16 19:06	B6E0761	LP
gamma-BHC	< 0.0507	0.0507		ug/L		05/31/16 19:06	B6E0761	LP
Heptachlor	< 0.0507	0.0507		ug/L		05/31/16 19:06	B6E0761	LP
Heptachlor epoxide	< 0.0507	0.0507		ug/L		05/31/16 19:06	B6E0761	LP
Methoxychlor	< 0.0507	0.0507		ug/L		05/31/16 19:06	B6E0761	LP
Simazine	< 0.507	0.507		ug/L		05/31/16 19:06	B6E0761	LP
Toxaphene	< 2.03	2.03		ug/L		05/31/16 19:06	B6E0761	LP
Surrogate: Decachlorobiphenyl				*Recovery: 63%*	*Limits: 30-109*	*05/31/16 19:06*	*B6E0761*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 36%*	*Limits: 21-124*	*05/31/16 19:06*	*B6E0761*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.304	0.304		ug/L		05/23/16 21:44	B6E0784	PM1
Aroclor 1221	< 0.507	0.507		ug/L		05/23/16 21:44	B6E0784	PM1
Aroclor 1232	< 0.608	0.608		ug/L		05/23/16 21:44	B6E0784	PM1
Aroclor 1242	< 0.608	0.608		ug/L		05/23/16 21:44	B6E0784	PM1
Aroclor 1248	< 0.608	0.608		ug/L		05/23/16 21:44	B6E0784	PM1
Aroclor 1254	< 0.507	0.507		ug/L		05/23/16 21:44	B6E0784	PM1
Aroclor 1260	< 0.304	0.304		ug/L		05/23/16 21:44	B6E0784	PM1
Total PCB	< 1.01	1.01		ug/L		05/23/16 21:44	B6E0784	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 57%*	*Limits: 40-135*	*05/23/16 21:44*	*B6E0784*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 78%*	*Limits: 13-133*	*05/23/16 21:44*	*B6E0784*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		05/19/16 14:50	B6E0893	MNN
Carbofuran	< 2.00	2.00		ug/L		05/19/16 14:50	B6E0893	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.788	0.788		ug/L		05/24/16 14:17	B6E0748	AMP
2,4-D	< 0.788	0.788		ug/L		05/24/16 14:17	B6E0748	AMP
Dinoseb	< 0.788	0.788		ug/L		05/24/16 14:17	B6E0748	AMP
Picloram	< 0.788	0.788		ug/L		05/24/16 14:17	B6E0748	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-1
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:50
Matrix: Groundwater
Lab ID: 16E0241-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 61%*	*Limits: 37-152*	*05/24/16 14:17*	*B6E0748*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Benzene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/25/16 09:53	B6E0998	AK1
Chlorobenzene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 09:53	B6E0998	AK1
Ethylbenzene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Dichloromethane	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Styrene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/25/16 09:53	B6E0998	AK1
Toluene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 09:53	B6E0998	AK1
Trichloroethene	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Vinyl chloride	< 2.00	2.00		ug/L		05/25/16 09:53	B6E0998	AK1
Xylenes, Total	< 8.00	8.00		ug/L		05/25/16 09:53	B6E0998	AK1
Surrogate: Dibromofluoromethane				*Recovery: 95%*	*Limits: 80-119*	*05/25/16 09:53*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 97%*	*Limits: 81-118*	*05/25/16 09:53*	*B6E0998*	*AK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/25/16 09:53*	*B6E0998*	*AK1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 89-112*	*05/25/16 09:53*	*B6E0998*	*AK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 105%*	*Limits: 85-114*	*05/25/16 09:53*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 104%*	*Limits: 70-120*	*05/25/16 09:53*	*B6E0998*	*AK1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		05/20/16 21:51	B6E1103	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		05/20/16 21:51	B6E1103	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		06/12/16 01:07	B6F0700	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 100%*	*Limits: 70-130*	*06/12/16 01:07*	*B6F0700*	*LP*

Response to 1st RTP
CWLP - 02930

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-1
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:50
Matrix: Groundwater
Lab ID: 16E0241-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/24/16 15:21	B6E0802	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 141%*	*Limits: 20-200*	*05/24/16 15:21*	*B6E0802*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.15	5.15		ug/L		06/01/16 21:06	B6E0801	JN1
o-Dichlorobenzene	< 5.15	5.15		ug/L		06/01/16 21:06	B6E0801	JN1
p-Dichlorobenzene	< 5.15	5.15		ug/L		06/01/16 21:06	B6E0801	JN1
Benzo(a)pyrene	< 10.3	10.3		ug/L		06/01/16 21:06	B6E0801	JN1
Di(2-ethylhexyl)phthalate	< 10.3	10.3		ug/L		06/01/16 21:06	B6E0801	JN1
Hexachlorocyclopentadiene	< 25.8	25.8		ug/L		06/01/16 21:06	B6E0801	JN1
Pentachlorophenol	< 103	103		ug/L		06/01/16 21:06	B6E0801	JN1
Surrogate: 2-Fluorophenol				*Recovery: 21%*	*Limits: 4-108*	*06/01/16 21:06*	*B6E0801*	*JN1*
Surrogate: Phenol-d5				*Recovery: 14%*	*Limits: 1-101*	*06/01/16 21:06*	*B6E0801*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 38%*	*Limits: 23-119*	*06/01/16 21:06*	*B6E0801*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 40%*	*Limits: 28-124*	*06/01/16 21:06*	*B6E0801*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 25%*	*Limits: 11-102*	*06/01/16 21:06*	*B6E0801*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 81%*	*Limits: 79-162*	*06/01/16 21:06*	*B6E0801*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.68**	1		pCi/L		06/08/16 00:00	16E0241-02	UL
Radium-228	**-0.42**	1		pCi/L		06/08/16 00:00	16E0241-02	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		05/20/16 00:00	16E0241-02	TEST

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-2
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:05
Matrix: Groundwater
Lab ID: 16E0241-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1310**			uS/cm	05/13/16 08:05	B6E0750	CD
Method: SM2550-B							
Temperature	**56.1**			°F	05/13/16 08:05	B6E0750	CD
Method: SM4500-H							
pH	**6.69**	0.05		pH Units	05/13/16 08:05	B6E0750	CD
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Arsenic	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Barium	**99.5**	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Beryllium	< 2.50	2.50		ug/L	05/20/16 12:01	B6E0766	AG
Boron	**4430**	12.5		ug/L	05/20/16 12:01	B6E0766	AG
Cadmium	< 2.50	2.50		ug/L	05/20/16 12:01	B6E0766	AG
Calcium	**203**	2.50		mg/L	05/20/16 12:21	B6E0766	AG
Chromium	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Cobalt	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Copper	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Iron	**6730**	125		ug/L	05/20/16 12:01	B6E0766	AG
Lead	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Manganese	**8420**	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/20/16 12:01	B6E0766	AG
Nickel	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Selenium	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Silver	< 2.50	2.50		ug/L	05/20/16 12:01	B6E0766	AG
Thallium	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Zinc	< 25.0	25.0		ug/L	05/20/16 12:01	B6E0766	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/20/16 11:57	B6E0776	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**39.7**	3.00		mg/L	05/14/16 03:30	B6E0542	DZ1
Fluoride	< 0.500	0.500		mg/L	05/14/16 03:30	B6E0542	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/14/16 03:30	B6E0542	DZ1
Sulfate	**418**	50.0		mg/L	05/16/16 23:51	B6E0593	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1160**	10.0		mg/L	05/19/16 16:00	B6E0753	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-2
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:05
Matrix: Groundwater
Lab ID: 16E0241-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/20/16 14:29	B6E0788	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		05/31/16 11:08	B6E1207	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.516	0.516		ug/L		06/02/16 15:46	B6E0791	LP
Atrazine	< 0.516	0.516		ug/L		06/02/16 15:46	B6E0791	LP
Chlordane	< 0.516	0.516		ug/L		06/02/16 15:46	B6E0791	LP
Endrin	< 0.0516	0.0516		ug/L		06/02/16 15:46	B6E0791	LP
Lindane	< 0.0516	0.0516		ug/L		06/02/16 15:46	B6E0791	LP
Heptachlor	< 0.0516	0.0516		ug/L		06/02/16 15:46	B6E0791	LP
Heptachlor epoxide	< 0.0516	0.0516		ug/L		06/02/16 15:46	B6E0791	LP
Methoxychlor	< 0.0516	0.0516		ug/L		06/02/16 15:46	B6E0791	LP
Simazine	< 0.516	0.516		ug/L		06/02/16 15:46	B6E0791	LP
Toxaphene	< 2.06	2.06		ug/L		06/02/16 15:46	B6E0791	LP
Surrogate: Decachlorobiphenyl				*Recovery: 87%*	*Limits: 30-109*	*06/02/16 15:46*	*B6E0791*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 32%*	*Limits: 21-124*	*06/02/16 15:46*	*B6E0791*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.310	0.310		ug/L		05/23/16 20:37	B6E0792	PM1
Aroclor 1221	< 0.516	0.516		ug/L		05/23/16 20:37	B6E0792	PM1
Aroclor 1232	< 0.619	0.619		ug/L		05/23/16 20:37	B6E0792	PM1
Aroclor 1242	< 0.619	0.619		ug/L		05/23/16 20:37	B6E0792	PM1
Aroclor 1248	< 0.619	0.619		ug/L		05/23/16 20:37	B6E0792	PM1
Aroclor 1254	< 0.516	0.516		ug/L		05/23/16 20:37	B6E0792	PM1
Aroclor 1260	< 0.310	0.310		ug/L		05/23/16 20:37	B6E0792	PM1
Total PCB	< 1.03	1.03		ug/L		05/23/16 20:37	B6E0792	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 76%*	*Limits: 40-135*	*05/23/16 20:37*	*B6E0792*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 43%*	*Limits: 13-133*	*05/23/16 20:37*	*B6E0792*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		05/24/16 12:40	B6E0922	AMP
Carbofuran	< 2.00	2.00		ug/L		05/24/16 12:40	B6E0922	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.777	0.777		ug/L		05/24/16 14:58	B6E0748	AMP
2,4-D	< 0.777	0.777		ug/L		05/24/16 14:58	B6E0748	AMP
Dinoseb	< 0.777	0.777		ug/L		05/24/16 14:58	B6E0748	AMP
Picloram	< 0.777	0.777		ug/L		05/24/16 14:58	B6E0748	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-2
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:05
Matrix: Groundwater
Lab ID: 16E0241-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 65%*	*Limits: 37-152*	*05/24/16 14:58*	*B6E0748*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Benzene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/25/16 10:23	B6E0998	AK1
Chlorobenzene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 10:23	B6E0998	AK1
Ethylbenzene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Dichloromethane	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Styrene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/25/16 10:23	B6E0998	AK1
Toluene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 10:23	B6E0998	AK1
Trichloroethene	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Vinyl chloride	< 2.00	2.00		ug/L		05/25/16 10:23	B6E0998	AK1
Xylenes, Total	< 8.00	8.00		ug/L		05/25/16 10:23	B6E0998	AK1
Surrogate: Dibromofluoromethane				*Recovery: 91%*	*Limits: 80-119*	*05/25/16 10:23*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 96%*	*Limits: 81-118*	*05/25/16 10:23*	*B6E0998*	*AK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/25/16 10:23*	*B6E0998*	*AK1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 89-112*	*05/25/16 10:23*	*B6E0998*	*AK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 104%*	*Limits: 85-114*	*05/25/16 10:23*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 103%*	*Limits: 70-120*	*05/25/16 10:23*	*B6E0998*	*AK1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		05/20/16 22:22	B6E1103	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		05/20/16 22:22	B6E1103	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		06/12/16 02:24	B6F0700	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 103%*	*Limits: 70-130*	*06/12/16 02:24*	*B6F0700*	*LP*

Response to 1st RTP
CWLP - 02934

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-2
Report Date: 06/17/2016
Collection Date: 05/13/2016 08:05
Matrix: Groundwater
Lab ID: 16E0241-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/24/16 15:55	B6E0802	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 172%*	*Limits: 20-200*	*05/24/16 15:55*	*B6E0802*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.12	5.12		ug/L		06/01/16 22:32	B6E0801	JN1
o-Dichlorobenzene	< 5.12	5.12		ug/L		06/01/16 22:32	B6E0801	JN1
p-Dichlorobenzene	< 5.12	5.12		ug/L		06/01/16 22:32	B6E0801	JN1
Benzo(a)pyrene	< 10.2	10.2		ug/L		06/01/16 22:32	B6E0801	JN1
Di(2-ethylhexyl)phthalate	< 10.2	10.2		ug/L		06/01/16 22:32	B6E0801	JN1
Hexachlorocyclopentadiene	< 25.6	25.6		ug/L		06/01/16 22:32	B6E0801	JN1
Pentachlorophenol	< 102	102		ug/L		06/01/16 22:32	B6E0801	JN1
Surrogate: 2-Fluorophenol			*S*	*Recovery: 2%*	*Limits: 4-108*	*06/01/16 22:32*	*B6E0801*	*JN1*
Surrogate: Phenol-d5				*Recovery: 2%*	*Limits: 1-101*	*06/01/16 22:32*	*B6E0801*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 36%*	*Limits: 23-119*	*06/01/16 22:32*	*B6E0801*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 42%*	*Limits: 28-124*	*06/01/16 22:32*	*B6E0801*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 27%*	*Limits: 11-102*	*06/01/16 22:32*	*B6E0801*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 97%*	*Limits: 79-162*	*06/01/16 22:32*	*B6E0801*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.49**	1		pCi/L		06/08/16 00:00	16E0241-03	UL
Radium-228	**-2.5**	1		pCi/L		06/08/16 00:00	16E0241-03	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		05/20/16 00:00	16E0241-03	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:25
Matrix: Groundwater
Lab ID: 16E0241-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1120**			uS/cm	05/13/16 07:25	B6E0750	CD
Method: SM2550-B							
Temperature	**55.6**			°F	05/13/16 07:25	B6E0750	CD
Method: SM4500-H							
pH	**6.78**	0.05		pH Units	05/13/16 07:25	B6E0750	CD
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Arsenic	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Barium	**102**	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Beryllium	< 2.50	2.50		ug/L	05/20/16 12:03	B6E0766	AG
Boron	**16200**	250		ug/L	05/20/16 12:23	B6E0766	AG
Cadmium	< 2.50	2.50		ug/L	05/20/16 12:03	B6E0766	AG
Calcium	**154**	2.50		mg/L	05/20/16 12:23	B6E0766	AG
Chromium	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Cobalt	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Copper	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Iron	**12600**	125		ug/L	05/20/16 12:03	B6E0766	AG
Lead	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Manganese	**7910**	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/20/16 12:03	B6E0766	AG
Nickel	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Selenium	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Silver	< 2.50	2.50		ug/L	05/20/16 12:03	B6E0766	AG
Thallium	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Zinc	< 25.0	25.0		ug/L	05/20/16 12:03	B6E0766	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/20/16 11:59	B6E0776	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**37.9**	3.00		mg/L	05/14/16 03:57	B6E0542	DZ1
Fluoride	< 0.500	0.500		mg/L	05/14/16 03:57	B6E0542	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/14/16 03:57	B6E0542	DZ1
Sulfate	**359**	50.0		mg/L	05/17/16 00:20	B6E0593	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**914**	10.0		mg/L	05/19/16 16:00	B6E0753	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:25
Matrix: Groundwater
Lab ID: 16E0241-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/20/16 14:29	B6E0788	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		05/31/16 11:08	B6E1207	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.521	0.521		ug/L		06/02/16 17:27	B6E0791	LP
Atrazine	< 0.521	0.521		ug/L		06/02/16 17:27	B6E0791	LP
Chlordane	< 0.521	0.521		ug/L		06/02/16 17:27	B6E0791	LP
Endrin	< 0.0521	0.0521		ug/L		06/02/16 17:27	B6E0791	LP
Lindane	< 0.0521	0.0521		ug/L		06/02/16 17:27	B6E0791	LP
Heptachlor	< 0.0521	0.0521		ug/L		06/02/16 17:27	B6E0791	LP
Heptachlor epoxide	< 0.0521	0.0521		ug/L		06/02/16 17:27	B6E0791	LP
Methoxychlor	< 0.0521	0.0521		ug/L		06/02/16 17:27	B6E0791	LP
Simazine	< 0.521	0.521		ug/L		06/02/16 17:27	B6E0791	LP
Toxaphene	< 2.09	2.09		ug/L		06/02/16 17:27	B6E0791	LP
Surrogate: Decachlorobiphenyl				*Recovery: 75%*	*Limits: 30-109*	*06/02/16 17:27*	*B6E0791*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 39%*	*Limits: 21-124*	*06/02/16 17:27*	*B6E0791*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.313	0.313		ug/L		05/23/16 21:01	B6E0792	PM1
Aroclor 1221	< 0.521	0.521		ug/L		05/23/16 21:01	B6E0792	PM1
Aroclor 1232	< 0.626	0.626		ug/L		05/23/16 21:01	B6E0792	PM1
Aroclor 1242	< 0.626	0.626		ug/L		05/23/16 21:01	B6E0792	PM1
Aroclor 1248	< 0.626	0.626		ug/L		05/23/16 21:01	B6E0792	PM1
Aroclor 1254	< 0.521	0.521		ug/L		05/23/16 21:01	B6E0792	PM1
Aroclor 1260	< 0.313	0.313		ug/L		05/23/16 21:01	B6E0792	PM1
Total PCB	< 1.04	1.04		ug/L		05/23/16 21:01	B6E0792	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 79%*	*Limits: 40-135*	*05/23/16 21:01*	*B6E0792*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 51%*	*Limits: 13-133*	*05/23/16 21:01*	*B6E0792*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		05/24/16 15:30	B6E0922	AMP
Carbofuran	< 2.00	2.00		ug/L		05/24/16 15:30	B6E0922	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.770	0.770	H	ug/L		05/24/16 15:40	B6E0748	AMP
2,4-D	< 0.770	0.770	H	ug/L		05/24/16 15:40	B6E0748	AMP
Dinoseb	< 0.770	0.770	H	ug/L		05/24/16 15:40	B6E0748	AMP
Picloram	< 0.770	0.770	H	ug/L		05/24/16 15:40	B6E0748	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:25
Matrix: Groundwater
Lab ID: 16E0241-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid			*H*	*Recovery: 55%*	*Limits: 37-152*	*05/24/16 15:40*	*B6E0748*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Benzene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/25/16 08:53	B6E0998	AK1
Chlorobenzene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 08:53	B6E0998	AK1
Ethylbenzene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Dichloromethane	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Styrene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/25/16 08:53	B6E0998	AK1
Toluene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 08:53	B6E0998	AK1
Trichloroethene	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Vinyl chloride	< 2.00	2.00		ug/L		05/25/16 08:53	B6E0998	AK1
Xylenes, Total	< 6.00	6.00		ug/L		05/25/16 08:53	B6E0998	AK1
Surrogate: Dibromofluoromethane				*Recovery: 95%*	*Limits: 80-119*	*05/25/16 08:53*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 97%*	*Limits: 81-118*	*05/25/16 08:53*	*B6E0998*	*AK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/25/16 08:53*	*B6E0998*	*AK1*
Surrogate: Toluene-d8				*Recovery: 96%*	*Limits: 89-112*	*05/25/16 08:53*	*B6E0998*	*AK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 105%*	*Limits: 85-114*	*05/25/16 08:53*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 105%*	*Limits: 70-120*	*05/25/16 08:53*	*B6E0998*	*AK1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		05/25/16 13:10	B6E1239	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		05/25/16 13:10	B6E1239	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		06/12/16 03:02	B6F0700	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 94%*	*Limits: 70-130*	*06/12/16 03:02*	*B6F0700*	*LP*

Response to 1st RTP
CWLP - 02938

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-3
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:25
Matrix: Groundwater
Lab ID: 16E0241-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/24/16 16:28	B6E0802	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 150%*	*Limits: 20-200*	*05/24/16 16:28*	*B6E0802*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.11	5.11		ug/L		06/01/16 23:16	B6E0801	JN1
o-Dichlorobenzene	< 5.11	5.11		ug/L		06/01/16 23:16	B6E0801	JN1
p-Dichlorobenzene	< 5.11	5.11		ug/L		06/01/16 23:16	B6E0801	JN1
Benzo(a)pyrene	< 10.2	10.2		ug/L		06/01/16 23:16	B6E0801	JN1
Di(2-ethylhexyl)phthalate	< 10.2	10.2		ug/L		06/01/16 23:16	B6E0801	JN1
Hexachlorocyclopentadiene	< 25.5	25.5		ug/L		06/01/16 23:16	B6E0801	JN1
Pentachlorophenol	< 102	102		ug/L		06/01/16 23:16	B6E0801	JN1
Surrogate: 2-Fluorophenol				*Recovery: 10%*	*Limits: 4-108*	*06/01/16 23:16*	*B6E0801*	*JN1*
Surrogate: Phenol-d5				*Recovery: 5%*	*Limits: 1-101*	*06/01/16 23:16*	*B6E0801*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 43%*	*Limits: 23-119*	*06/01/16 23:16*	*B6E0801*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 51%*	*Limits: 28-124*	*06/01/16 23:16*	*B6E0801*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 23%*	*Limits: 11-102*	*06/01/16 23:16*	*B6E0801*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 89%*	*Limits: 79-162*	*06/01/16 23:16*	*B6E0801*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.38**	1		pCi/L		06/08/16 00:00	16E0241-04	UL
Radium-228	**-0.44**	1		pCi/L		06/08/16 00:00	16E0241-04	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		05/20/16 00:00	16E0241-04	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-4
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:30
Matrix: Groundwater
Lab ID: 16E0241-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**779**			uS/cm	05/13/16 07:30	B6E0750	AS5
Method: SM2550-B							
Temperature	**59.5**			°F	05/13/16 07:30	B6E0750	AS5
Method: SM4500-H							
pH	**7.18**	0.05		pH Units	05/13/16 07:30	B6E0750	AS5
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Arsenic	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Barium	**373**	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Beryllium	< 2.50	2.50		ug/L	05/20/16 12:05	B6E0766	AG
Boron	**123**	12.5		ug/L	05/20/16 12:05	B6E0766	AG
Cadmium	< 2.50	2.50		ug/L	05/20/16 12:05	B6E0766	AG
Calcium	**118**	2.50		mg/L	05/20/16 12:24	B6E0766	AG
Chromium	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Cobalt	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Copper	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Iron	**13000**	125		ug/L	05/20/16 12:05	B6E0766	AG
Lead	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Manganese	**156**	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/20/16 12:05	B6E0766	AG
Nickel	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Selenium	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Silver	< 2.50	2.50		ug/L	05/20/16 12:05	B6E0766	AG
Thallium	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Zinc	< 25.0	25.0		ug/L	05/20/16 12:05	B6E0766	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/20/16 12:01	B6E0776	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**12.3**	3.00		mg/L	05/14/16 04:25	B6E0542	DZ1
Fluoride	< 0.500	0.500		mg/L	05/14/16 04:25	B6E0542	DZ1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/14/16 04:25	B6E0542	DZ1
Sulfate	< 5.00	5.00		mg/L	05/14/16 04:25	B6E0542	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**514**	10.0		mg/L	05/19/16 16:00	B6E0753	TB2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-4
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:30
Matrix: Groundwater
Lab ID: 16E0241-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units			Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)									
Method: SW9014 by Aquachem / SW9010B									
Cyanide	< 0.010	0.010		mg/L			05/20/16 14:29	B6E0788	MB1
Method: SW9065 by Aquachem									
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L			05/31/16 11:08	B6E1207	ML3
Organochlorine Pesticides by GC/ECD									
Method: SW8081B / SW3510									
Alachlor	< 0.522	0.522		ug/L			06/02/16 18:13	B6E0791	LP
Atrazine	< 0.522	0.522		ug/L			06/02/16 18:13	B6E0791	LP
Chlordane	< 0.522	0.522		ug/L			06/02/16 18:13	B6E0791	LP
Endrin	< 0.0522	0.0522		ug/L			06/02/16 18:13	B6E0791	LP
Lindane	< 0.0522	0.0522		ug/L			06/02/16 18:13	B6E0791	LP
Heptachlor	< 0.0522	0.0522		ug/L			06/02/16 18:13	B6E0791	LP
Heptachlor epoxide	< 0.0522	0.0522		ug/L			06/02/16 18:13	B6E0791	LP
Methoxychlor	< 0.0522	0.0522		ug/L			06/02/16 18:13	B6E0791	LP
Simazine	< 0.522	0.522		ug/L			06/02/16 18:13	B6E0791	LP
Toxaphene	< 2.09	2.09		ug/L			06/02/16 18:13	B6E0791	LP
Surrogate: Decachlorobiphenyl				*Recovery: 76%*	*Limits: 30-109*		*06/02/16 18:13*	*B6E0791*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 43%*	*Limits: 21-124*		*06/02/16 18:13*	*B6E0791*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Method: SW8082A / SW3510									
Aroclor 1016	< 0.313	0.313		ug/L			05/23/16 21:26	B6E0792	PM1
Aroclor 1221	< 0.522	0.522		ug/L			05/23/16 21:26	B6E0792	PM1
Aroclor 1232	< 0.626	0.626		ug/L			05/23/16 21:26	B6E0792	PM1
Aroclor 1242	< 0.626	0.626		ug/L			05/23/16 21:26	B6E0792	PM1
Aroclor 1248	< 0.626	0.626		ug/L			05/23/16 21:26	B6E0792	PM1
Aroclor 1254	< 0.522	0.522		ug/L			05/23/16 21:26	B6E0792	PM1
Aroclor 1260	< 0.313	0.313		ug/L			05/23/16 21:26	B6E0792	PM1
Total PCB	< 1.04	1.04		ug/L			05/23/16 21:26	B6E0792	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 67%*	*Limits: 40-135*		*05/23/16 21:26*	*B6E0792*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 13-133*		*05/23/16 21:26*	*B6E0792*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)									
Method: E531.1									
Aldicarb	< 2.00	2.00		ug/L			05/24/16 13:15	B6E0922	AMP
Carbofuran	< 2.00	2.00		ug/L			05/24/16 13:15	B6E0922	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)									
Method: SW8321B / SW3510									
2,4,5-TP (Silvex)	< 0.792	0.792	H	ug/L			05/24/16 16:21	B6E0748	AMP
2,4-D	< 0.792	0.792	H	ug/L			05/24/16 16:21	B6E0748	AMP
Dinoseb	< 0.792	0.792	H	ug/L			05/24/16 16:21	B6E0748	AMP
Picloram	< 0.792	0.792	H	ug/L			05/24/16 16:21	B6E0748	AMP

Response to 1st RTP
CWLP - 02941

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-4
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:30
Matrix: Groundwater
Lab ID: 16E0241-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid			*H*	*Recovery: 72%*	*Limits: 37-152*	*05/24/16 16:21*	*B6E0748*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Benzene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/25/16 10:53	B6E0998	AK1
Chlorobenzene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 10:53	B6E0998	AK1
Ethylbenzene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Dichloromethane	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Styrene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/25/16 10:53	B6E0998	AK1
Toluene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 10:53	B6E0998	AK1
Trichloroethene	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Vinyl chloride	< 2.00	2.00		ug/L		05/25/16 10:53	B6E0998	AK1
Xylenes, Total	< 8.00	8.00		ug/L		05/25/16 10:53	B6E0998	AK1
Surrogate: Dibromofluoromethane				*Recovery: 92%*	*Limits: 80-119*	*05/25/16 10:53*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 98%*	*Limits: 81-118*	*05/25/16 10:53*	*B6E0998*	*AK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/25/16 10:53*	*B6E0998*	*AK1*
Surrogate: Toluene-d8				*Recovery: 96%*	*Limits: 89-112*	*05/25/16 10:53*	*B6E0998*	*AK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 104%*	*Limits: 85-114*	*05/25/16 10:53*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 103%*	*Limits: 70-120*	*05/25/16 10:53*	*B6E0998*	*AK1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		05/25/16 13:42	B6E1239	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		05/25/16 13:42	B6E1239	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		06/12/16 12:45	B6F0700	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 106%*	*Limits: 70-130*	*06/12/16 12:45*	*B6F0700*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-4
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:30
Matrix: Groundwater
Lab ID: 16E0241-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/24/16 17:01	B6E0802	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 172%*	*Limits: 20-200*	*05/24/16 17:01*	*B6E0802*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.06	5.06		ug/L		06/01/16 23:59	B6E0801	JN1
o-Dichlorobenzene	< 5.06	5.06		ug/L		06/01/16 23:59	B6E0801	JN1
p-Dichlorobenzene	< 5.06	5.06		ug/L		06/01/16 23:59	B6E0801	JN1
Benzo(a)pyrene	< 10.1	10.1		ug/L		06/01/16 23:59	B6E0801	JN1
Di(2-ethylhexyl)phthalate	< 10.1	10.1		ug/L		06/01/16 23:59	B6E0801	JN1
Hexachlorocyclopentadiene	< 25.3	25.3		ug/L		06/01/16 23:59	B6E0801	JN1
Pentachlorophenol	< 101	101		ug/L		06/01/16 23:59	B6E0801	JN1
Surrogate: 2-Fluorophenol				*Recovery: 22%*	*Limits: 4-108*	*06/01/16 23:59*	*B6E0801*	*JN1*
Surrogate: Phenol-d5				*Recovery: 12%*	*Limits: 1-101*	*06/01/16 23:59*	*B6E0801*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 35%*	*Limits: 23-119*	*06/01/16 23:59*	*B6E0801*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 43%*	*Limits: 28-124*	*06/01/16 23:59*	*B6E0801*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 25%*	*Limits: 11-102*	*06/01/16 23:59*	*B6E0801*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 89%*	*Limits: 79-162*	*06/01/16 23:59*	*B6E0801*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.57**	1		pCi/L		06/08/16 00:00	16E0241-05	UL
Radium-228	**0.58**	1		pCi/L		06/08/16 00:00	16E0241-05	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		05/20/16 00:00	16E0241-05	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-5
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:35
Matrix: Groundwater
Lab ID: 16E0241-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**636**			uS/cm	05/13/16 07:35	B6E0750	MAJ
Method: SM2550-B							
Temperature	**53.7**			°F	05/13/16 07:35	B6E0750	MAJ
Method: SM4500-H							
pH	**7.56**	0.05		pH Units	05/13/16 07:35	B6E0750	MAJ
Metals by ICP-MS							
Method: SW6020B / SW3015							
Antimony	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Arsenic	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Barium	**62.8**	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Beryllium	< 2.50	2.50		ug/L	05/20/16 12:07	B6E0766	AG
Boron	**53.7**	12.5		ug/L	05/20/16 12:07	B6E0766	AG
Cadmium	< 2.50	2.50		ug/L	05/20/16 12:07	B6E0766	AG
Calcium	**77.3**	2.50		mg/L	05/20/16 12:26	B6E0766	AG
Chromium	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Cobalt	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Copper	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Iron	**4120**	125		ug/L	05/20/16 12:07	B6E0766	AG
Lead	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Manganese	**58.4**	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/20/16 12:07	B6E0766	AG
Nickel	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Selenium	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Silver	< 2.50	2.50		ug/L	05/20/16 12:07	B6E0766	AG
Thallium	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Zinc	< 25.0	25.0		ug/L	05/20/16 12:07	B6E0766	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/18/16 13:11	B6E0654	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	05/14/16 06:16	B6E0542	DZ1
Fluoride	< 0.500	0.500		mg/L	05/14/16 06:16	B6E0542	DZ1
Nitrogen, Nitrate	**1.55**	0.500		mg/L	05/14/16 06:16	B6E0542	DZ1
Sulfate	**46.8**	5.00		mg/L	05/14/16 06:16	B6E0542	DZ1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**292**	10.0		mg/L	05/19/16 16:00	B6E0753	TB2

Response to 1st RTP
CWLP - 02944

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-5
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:35
Matrix: Groundwater
Lab ID: 16E0241-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.100	0.100		mg/L		05/20/16 15:20	B6E0788	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		05/31/16 11:08	B6E1207	ML3
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.507	0.507		ug/L		05/31/16 19:53	B6E0791	LP
Atrazine	< 0.507	0.507		ug/L		05/31/16 19:53	B6E0791	LP
Chlordane	< 0.507	0.507		ug/L		05/31/16 19:53	B6E0791	LP
Endrin	< 0.0507	0.0507		ug/L		05/31/16 19:53	B6E0791	LP
gamma-BHC	< 0.0507	0.0507		ug/L		05/31/16 19:53	B6E0791	LP
Heptachlor	< 0.0507	0.0507		ug/L		05/31/16 19:53	B6E0791	LP
Heptachlor epoxide	< 0.0507	0.0507		ug/L		05/31/16 19:53	B6E0791	LP
Methoxychlor	< 0.0507	0.0507		ug/L		05/31/16 19:53	B6E0791	LP
Simazine	< 0.507	0.507		ug/L		05/31/16 19:53	B6E0791	LP
Toxaphene	< 2.03	2.03		ug/L		05/31/16 19:53	B6E0791	LP
Surrogate: Decachlorobiphenyl				*Recovery: 64%*	*Limits: 30-109*	*05/31/16 19:53*	*B6E0791*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 40%*	*Limits: 21-124*	*05/31/16 19:53*	*B6E0791*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.304	0.304		ug/L		05/23/16 21:50	B6E0792	PM1
Aroclor 1221	< 0.507	0.507		ug/L		05/23/16 21:50	B6E0792	PM1
Aroclor 1232	< 0.609	0.609		ug/L		05/23/16 21:50	B6E0792	PM1
Aroclor 1242	< 0.609	0.609		ug/L		05/23/16 21:50	B6E0792	PM1
Aroclor 1248	< 0.609	0.609		ug/L		05/23/16 21:50	B6E0792	PM1
Aroclor 1254	< 0.507	0.507		ug/L		05/23/16 21:50	B6E0792	PM1
Aroclor 1260	< 0.304	0.304		ug/L		05/23/16 21:50	B6E0792	PM1
Total PCB	< 1.01	1.01		ug/L		05/23/16 21:50	B6E0792	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 71%*	*Limits: 40-135*	*05/23/16 21:50*	*B6E0792*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 53%*	*Limits: 13-133*	*05/23/16 21:50*	*B6E0792*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		05/24/16 16:04	B6E0922	AMP
Carbofuran	< 2.00	2.00		ug/L		05/24/16 16:04	B6E0922	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.761	0.761	H	ug/L		05/24/16 17:03	B6E0748	AMP
2,4-D	< 0.761	0.761	H	ug/L		05/24/16 17:03	B6E0748	AMP
Dinoseb	< 0.761	0.761	H	ug/L		05/24/16 17:03	B6E0748	AMP
Picloram	< 0.761	0.761	H	ug/L		05/24/16 17:03	B6E0748	AMP

Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-5
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:35
Matrix: Groundwater
Lab ID: 16E0241-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid			*H*	*Recovery: 65%*	*Limits: 37-152*	*05/24/16 17:03*	*B6E0748*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
1,2-Dichloropropane	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Benzene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/25/16 09:23	B6E0998	AK1
Chlorobenzene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
cis-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 09:23	B6E0998	AK1
Ethylbenzene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Methyl tert-butyl ether	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Dichloromethane	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Styrene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Tetrachloroethene	< 4.00	4.00		ug/L		05/25/16 09:23	B6E0998	AK1
Toluene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
trans-1,2-Dichloroethene	< 10.0	10.0		ug/L		05/25/16 09:23	B6E0998	AK1
Trichloroethene	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Vinyl chloride	< 2.00	2.00		ug/L		05/25/16 09:23	B6E0998	AK1
Xylenes, Total	< 8.00	8.00		ug/L		05/25/16 09:23	B6E0998	AK1
Surrogate: Dibromofluoromethane				*Recovery: 94%*	*Limits: 80-119*	*05/25/16 09:23*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 95%*	*Limits: 81-118*	*05/25/16 09:23*	*B6E0998*	*AK1*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*05/25/16 09:23*	*B6E0998*	*AK1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 89-112*	*05/25/16 09:23*	*B6E0998*	*AK1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 85-114*	*05/25/16 09:23*	*B6E0998*	*AK1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 104%*	*Limits: 70-120*	*05/25/16 09:23*	*B6E0998*	*AK1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0921	0.0921		ug/L		05/25/16 14:13	B6E1239	LP
Ethylene Dibromide	< 0.0921	0.0921		ug/L		05/25/16 14:13	B6E1239	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		06/12/16 14:01	B6F0700	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 114%*	*Limits: 70-130*	*06/12/16 14:01*	*B6F0700*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2016
Work Order: 16E0241

Client Sample ID: AP-5
Report Date: 06/17/2016
Collection Date: 05/13/2016 07:35
Matrix: Groundwater
Lab ID: 16E0241-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/24/16 17:35	B6E0802	jn1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 146%*	*Limits: 20-200*	*05/24/16 17:35*	*B6E0802*	*jn1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.19	5.19		ug/L		06/02/16 00:42	B6E0801	JN1
o-Dichlorobenzene	< 5.19	5.19		ug/L		06/02/16 00:42	B6E0801	JN1
p-Dichlorobenzene	< 5.19	5.19		ug/L		06/02/16 00:42	B6E0801	JN1
Benzo(a)pyrene	< 10.4	10.4		ug/L		06/02/16 00:42	B6E0801	JN1
Di(2-ethylhexyl)phthalate	< 10.4	10.4		ug/L		06/02/16 00:42	B6E0801	JN1
Hexachlorocyclopentadiene	< 25.9	25.9		ug/L		06/02/16 00:42	B6E0801	JN1
Pentachlorophenol	< 104	104		ug/L		06/02/16 00:42	B6E0801	JN1
Surrogate: 2-Fluorophenol				*Recovery: 35%*	*Limits: 4-108*	*06/02/16 00:42*	*B6E0801*	*JN1*
Surrogate: Phenol-d5				*Recovery: 22%*	*Limits: 1-101*	*06/02/16 00:42*	*B6E0801*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 53%*	*Limits: 23-119*	*06/02/16 00:42*	*B6E0801*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 61%*	*Limits: 28-124*	*06/02/16 00:42*	*B6E0801*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 28%*	*Limits: 11-102*	*06/02/16 00:42*	*B6E0801*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 87%*	*Limits: 79-162*	*06/02/16 00:42*	*B6E0801*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.42**	1		pCi/L		06/08/16 00:00	16E0241-06	UL
Radium-228	**-0.06**	1		pCi/L		06/08/16 00:00	16E0241-06	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		05/20/16 00:00	16E0241-06	TEST

16E0241
PM: Jason Cristino
City, Water, Light & Power
List G20

CHAIN OF CUSTODY

Environmental Monitoring and Technologies
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IL, 60053-3203

Phone: 800-246-0663
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Page

COC Nu

Lab Work Order Number 1.60E+242

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	**Project Number**
Sue Corcoran	[none]
Address	**Project Description**
201 East Lake Shore Drive	
City	**PO Number**
Springfield	
State/Zip	**Shipped By**
IL, 62707-	
Phone / **Fax**	**Tracking Number**
(217) 757-8610 / (217) 757-8615	
Sampler C. Duncan	**Sampler Signature** Curtis Duncan

Requested Analyses

SW8260B	E531.1	SM7500::SW6020B::SW7470A	E548.1::E552.1::SM2510B::SM2540C:	SW9014 by Aquachem	E504.1	SW9065 by Aquachem			

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5
Expedited (days):
Due Date: 5/11/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3			G	W	22	3	1	3	11	1	2	1				
AP-1	5/13/16	0850	G	W	22	3	1	3	11	1	2	1			6	ABLOOD CHLORINATED POOLS
AP-2	5/13/16	0805	G	W	22	3	1	3	11	1	2	1				BBROOD CHLORINATED POOLS
AP-3	5/13/16	0725	G	W	22	3	1	3	11	1	2	1				OLDER CHLORINATED POOLS TOO
AP-4			G	W	22	3	1	3	11	1	2	1				
AP-5			G	W	22	3	1	3	11	1	2	1				

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	5/13/16 1100	Jacoby Jackson	5/13/16 1100		
Relinquished By: Jacoby Jackson	Date/Time 5/13/16 1536	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 5/13/16 1730		
Cooler Numbers and Temperatures					

Matrix Codes: W=Water

Preserv. Codes: S=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7= 7.00 @ 0710

Response to 1st RTP
CWLP - 02948

CHAIN OF CUSTODY

Environmental Monitoring and Technologies
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IL, 60053-3203

Phone: 800-246-0663
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Page 1 of 1

COC Number

Lab Work Order Number 1.60E+242

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone: (217) 757-8610	Fax: (217) 757-8615
Tracking Number	
Sampler: A. Szafran	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020B::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/11/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3			G	W	22	3	1	3	11	1	2	1				
AP-1			G	W	22	3	1	3	11	1	2	1				
AP-2			G	W	22	3	1	3	11	1	2	1				
AP-3			G	W	22	3	1	3	11	1	2	1				
AP-4	05/12/16	07:30	G	W	22	3	1	3	11	1	2	1				05ABCDEFGHIJKLMNOP QRS TUV
AP-5			G	W	22	3	1	3	11	1	2	1				

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	05/13/16 11:00	Jacolyn Jackson	5/13/16 11:00		
Relinquished By: Jacolyn Jackson	Date/Time 5/13/16 1530	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time 5/13/16 1530		
Cooler Numbers and Temperatures					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7= 7.00 @ 07:00

CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Page 1 of 1

COC Number

Lab Work Order Number 1.60E+242

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: M. Johnson	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020B::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.

Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/11/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3			G	W	22	3	1	3	11	1	2	1				
AP-1			G	W	22	3	1	3	11	1	2	1				
AP-2			G	W	22	3	1	3	11	1	2	1				
AP-3			G	W	22	3	1	3	11	1	2	1				
AP-4			G	W	22	3	1	3	11	1	2	1				
AP-5	5.13.16	0735	G	W	22	3	1	3	11	1	2	1				OBARCOOP.THMS MNDOD. RSTOU

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
	5/13 1100		5/13/16 1100		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	5/13/16 1550				
Relinquished By	Date/Time	Received By	Date/Time		
			5/13/16 1780		
Cooler Numbers and Temperatures					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

pH = 7 OCA 0720 MS 5/13

Response to 1st RTP
CWLP - 02950

CHAIN OF CUSTODY

Environmental Monitoring and Technologies
8100 Austin Ave
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IL, 60053-3203

Phone: 800-246-0663
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Page 1 of 1

COC Number

Lab Work Order Number 1.60E+242

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020B::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 5

Expedited (days):

Due Date: 5/11/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3	5/13/16	1155	G	W	22	3	1	3	11	1	2	1				OLAECOEPurtiuvuvnDPO RSTUV
AP-1			G	W	22	3	1	3	11	1	2	1				
AP-2			G	W	22	3	1	3	11	1	2	1				
AP-3			G	W	22	3	1	3	11	1	2	1				
AP-4			G	W	22	3	1	3	11	1	2	1				
AP-5			G	W	22	3	1	3	11	1	2	1				

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	5/13/16 1230		5-13-16 1330		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	5-13-16 1330				
Relinquished By	Date/Time	Received By	Date/Time		
			5/13/16 1230		
Cooler Numbers and Temperatures					
7					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7 = 7.00 @ 1130

Response to 1st RTP
CWLP - 02951

Electronic Filing: Received, Clerk's Office 01/29/2020

Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

September 07, 2016

Work Order: 16H0152

RE: List G20
3Q 2016

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 8/29/2016 2:41:08PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	16H0152-01	Groundwater	08/04/16 07:55	08/04/16 15:20
AP-1	16H0152-02	Groundwater	08/04/16 07:50	08/04/16 15:20
AP-2	16H0152-03	Groundwater	08/04/16 08:35	08/04/16 15:20
AP-3	16H0152-04	Groundwater	08/04/16 09:20	08/04/16 15:20
AP-4	16H0152-05	Groundwater	08/04/16 10:15	08/04/16 15:20
AP-5	16H0152-06	Groundwater	08/04/16 10:55	08/04/16 15:20
AW-3	16H0152-01	Groundwater	08/04/16 07:55	08/04/16 15:20
AP-1	16H0152-02	Groundwater	08/04/16 07:50	08/04/16 15:20
AP-2	16H0152-03	Groundwater	08/04/16 08:35	08/04/16 15:20
AP-3	16H0152-04	Groundwater	08/04/16 09:20	08/04/16 15:20
AP-4	16H0152-05	Groundwater	08/04/16 10:15	08/04/16 15:20
AP-5	16H0152-06	Groundwater	08/04/16 10:55	08/04/16 15:20
AW-3	16H0152-01	Groundwater	08/04/16 07:55	08/04/16 15:20
AP-1	16H0152-02	Groundwater	08/04/16 07:50	08/04/16 15:20
AP-2	16H0152-03	Groundwater	08/04/16 08:35	08/04/16 15:20
AP-3	16H0152-04	Groundwater	08/04/16 09:20	08/04/16 15:20
AP-4	16H0152-05	Groundwater	08/04/16 10:15	08/04/16 15:20
AP-5	16H0152-06	Groundwater	08/04/16 10:55	08/04/16 15:20

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Case Narrative

Client: City, Water, Light & Power **Date:** 09/07/2016
Project: List G20
3Q 2016
Work Order: 16H0152

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 16H0152
The samples were received on08/04/16 15:20. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	2.0

degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed. Samples 16H0152-01 and 06 were decanted prior to the Radium 226 and 228 analysis to reduce sediments.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

This revised report includes subcontracted radiation data. The report originally sent on 08/30/2016 did not include the subcontracted radiation testing.

HPLC

Method: 8321_HERB, B6H0472-BS1: The recoveries for two spike compounds in the LCS were below the QC limits. The LCSD recoveries were acceptable for all target compounds.

Method: 8321_HERB, B6H0472-BSD1/BSD2: The RPDs for some compounds were outside the QC limit.

GC Semivolatiles

Method: 552_DALAPON, B6H0848-MSD1: MSD recovery for Dalapon is above the laboratory QC limit. The LCS associated with this sample is acceptable.

Method: 552_DALAPON, B6H0848-MSD1:The recovery for one surrogate compound in the MSD was slightly above the laboratory QC limit.

Method: 552_DALAPON, S5I0222-CCV2: The recovery of Dalapon in the bracketing CCV was above the limit, however this compound was not detected in the associated samples.

GC Semivolatiles

Method: 8081B_PEST, S6H0271-CCV3: The recoveries of two compounds in the bracketing CCV were above the limits, however these compounds were not detected in the associated samples.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AW-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:55
Matrix: Groundwater
Lab ID: 16H0152-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**720**			uS/cm	08/04/16 07:55	B6H1314	AS5
Method: SM2550-B							
Temperature	**61.3**			°F	08/04/16 07:55	B6H1314	AS5
Method: SM4500-H							
pH	**7.18**	0.05		pH Units	08/04/16 07:55	B6H1314	AS5
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Arsenic	**231**	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Barium	**208**	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Beryllium	< 2.50	2.50		ug/L	08/11/16 17:53	B6H0473	AG
Boron	**135**	12.5		ug/L	08/11/16 17:53	B6H0473	AG
Cadmium	< 2.50	2.50		ug/L	08/11/16 17:53	B6H0473	AG
Calcium	**74.3**	0.125		mg/L	08/11/16 17:53	B6H0473	AG
Chromium	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Cobalt	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Copper	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Iron	**12100**	125		ug/L	08/11/16 17:53	B6H0473	AG
Lead	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Manganese	**304**	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/11/16 17:53	B6H0473	AG
Nickel	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Selenium	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Silver	< 2.50	2.50		ug/L	08/11/16 17:53	B6H0473	AG
Thallium	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Zinc	< 25.0	25.0		ug/L	08/11/16 17:53	B6H0473	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/23/16 12:40	B6H1223	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**22.7**	3.00		mg/L	08/05/16 20:33	B6H0291	NB1
Fluoride	< 0.500	0.500		mg/L	08/05/16 20:33	B6H0291	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/05/16 20:33	B6H0291	NB1
Sulfate	**17.3**	5.00		mg/L	08/05/16 20:33	B6H0291	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**488**	10.0		mg/L	08/09/16 14:12	B6H0497	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AW-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:55
Matrix: Groundwater
Lab ID: 16H0152-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/18/16 12:14	B6H1005	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/08/16 17:08	B6H0380	MB1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.531	0.531		ug/L		08/12/16 15:11	B6H0498	LP
Atrazine	< 0.531	0.531		ug/L		08/12/16 15:11	B6H0498	LP
Chlordane	< 0.531	0.531		ug/L		08/12/16 15:11	B6H0498	LP
Endrin	< 0.0531	0.0531		ug/L		08/12/16 15:11	B6H0498	LP
Lindane	< 0.0531	0.0531		ug/L		08/12/16 15:11	B6H0498	LP
Heptachlor	< 0.0531	0.0531		ug/L		08/12/16 15:11	B6H0498	LP
Heptachlor epoxide	< 0.0531	0.0531		ug/L		08/12/16 15:11	B6H0498	LP
Methoxychlor	< 0.0531	0.0531		ug/L		08/12/16 15:11	B6H0498	LP
Simazine	< 0.531	0.531		ug/L		08/12/16 15:11	B6H0498	LP
Toxaphene	< 2.13	2.13		ug/L		08/12/16 15:11	B6H0498	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 112%*	*Limits: 30-109*	*08/12/16 15:11*	*B6H0498*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 66%*	*Limits: 21-124*	*08/12/16 15:11*	*B6H0498*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Aroclor 1221	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Aroclor 1232	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Aroclor 1242	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Aroclor 1248	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Aroclor 1254	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Aroclor 1260	< 0.319	0.319		ug/L		08/16/16 13:48	B6H0499	PM1
Total PCB	< 1.06	1.06		ug/L		08/16/16 13:48	B6H0499	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 93%*	*Limits: 40-135*	*08/16/16 13:48*	*B6H0499*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 58%*	*Limits: 13-133*	*08/16/16 13:48*	*B6H0499*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/16/16 11:55	B6H0874	MNN
Carbofuran	< 2.00	2.00		ug/L		08/16/16 11:55	B6H0874	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		08/11/16 19:03	B6H0472	AMP
2,4-D	< 1.48	1.48		ug/L		08/11/16 19:03	B6H0472	AMP
Dinoseb	< 1.48	1.48		ug/L		08/11/16 19:03	B6H0472	AMP
Picloram	< 1.48	1.48		ug/L		08/11/16 19:03	B6H0472	AMP

Response to 1st RTP
CWLP - 02957

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AW-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:55
Matrix: Groundwater
Lab ID: 16H0152-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 72%*	*Limits: 37-152*	*08/11/16 19:03*	*B6H0472*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Benzene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/06/16 12:23	B6H0617	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
cis-1,2-Dichloroethene	< 8.00	8.00		ug/L		08/06/16 12:23	B6H0617	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Dichloromethane	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Styrene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/06/16 12:23	B6H0617	XN
Toluene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		08/06/16 12:23	B6H0617	XN
Trichloroethene	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/06/16 12:23	B6H0617	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/06/16 12:23	B6H0617	XN
Surrogate: Dibromofluoromethane				*Recovery: 116%*	*Limits: 80-119*	*08/06/16 12:23*	*B6H0617*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 121%*	*Limits: 81-118*	*08/06/16 12:23*	*B6H0617*	*XN*
Surrogate: Fluorobenzene				*Recovery: 101%*	*Limits: 80-116*	*08/06/16 12:23*	*B6H0617*	*XN*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*08/06/16 12:23*	*B6H0617*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 85-114*	*08/06/16 12:23*	*B6H0617*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 114%*	*Limits: 70-120*	*08/06/16 12:23*	*B6H0617*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		08/16/16 11:59	B6H0972	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		08/16/16 11:59	B6H0972	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		08/16/16 14:26	B6H0848	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 122%*	*Limits: 70-130*	*08/16/16 14:26*	*B6H0848*	*LP*

Response to 1st RTP
CWLP - 02958

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AW-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:55
Matrix: Groundwater
Lab ID: 16H0152-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		08/12/16 23:36	B6H0589	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 126%*	*Limits: 20-200*	*08/12/16 23:36*	*B6H0589*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.32	5.32		ug/L		08/09/16 15:34	B6H0433	JN1
o-Dichlorobenzene	< 5.32	5.32		ug/L		08/09/16 15:34	B6H0433	JN1
p-Dichlorobenzene	< 5.32	5.32		ug/L		08/09/16 15:34	B6H0433	JN1
Benzo(a)pyrene	< 10.6	10.6		ug/L		08/09/16 15:34	B6H0433	JN1
Di(2-ethylhexyl)phthalate	< 10.6	10.6		ug/L		08/09/16 15:34	B6H0433	JN1
Hexachlorocyclopentadiene	< 26.6	26.6		ug/L		08/09/16 15:34	B6H0433	JN1
Pentachlorophenol	< 106	106		ug/L		08/09/16 15:34	B6H0433	JN1
Surrogate: 2-Fluorophenol				*Recovery: 29%*	*Limits: 4-108*	*08/09/16 15:34*	*B6H0433*	*JN1*
Surrogate: Phenol-d5				*Recovery: 20%*	*Limits: 1-101*	*08/09/16 15:34*	*B6H0433*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*08/09/16 15:34*	*B6H0433*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 64%*	*Limits: 28-124*	*08/09/16 15:34*	*B6H0433*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 52%*	*Limits: 11-102*	*08/09/16 15:34*	*B6H0433*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 118%*	*Limits: 79-162*	*08/09/16 15:34*	*B6H0433*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.53**	1		pCi/L		08/30/16 00:00	16H0152-01	UL
Radium-228	**1.8**	1		pCi/L		08/30/16 00:00	16H0152-01	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		08/14/16 00:00	16H0152-01	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-1
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:50
Matrix: Groundwater
Lab ID: 16H0152-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1650**			uS/cm	08/04/16 07:50	B6H1314	CD
Method: SM2550-B							
Temperature	**68.1**			°F	08/04/16 07:50	B6H1314	CD
Method: SM4500-H							
pH	**6.57**	0.05		pH Units	08/04/16 07:50	B6H1314	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Arsenic	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Barium	**682**	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Beryllium	< 2.50	2.50		ug/L	08/11/16 17:55	B6H0473	AG
Boron	**17900**	12.5		ug/L	08/11/16 17:55	B6H0473	AG
Cadmium	< 2.50	2.50		ug/L	08/11/16 17:55	B6H0473	AG
Calcium	**228**	0.125		mg/L	08/11/16 17:55	B6H0473	AG
Chromium	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Cobalt	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Copper	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Iron	**24600**	125		ug/L	08/11/16 17:55	B6H0473	AG
Lead	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Manganese	**378**	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/11/16 17:55	B6H0473	AG
Nickel	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Selenium	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Silver	< 2.50	2.50		ug/L	08/11/16 17:55	B6H0473	AG
Thallium	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Zinc	< 25.0	25.0		ug/L	08/11/16 17:55	B6H0473	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/23/16 12:43	B6H1223	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**48.3**	3.00		mg/L	08/05/16 21:02	B6H0291	NB1
Fluoride	< 0.500	0.500		mg/L	08/05/16 21:02	B6H0291	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/05/16 21:02	B6H0291	NB1
Sulfate	**612**	50.0		mg/L	08/08/16 19:00	B6H0382	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1390**	10.0		mg/L	08/10/16 13:25	B6H0564	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-1
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:50
Matrix: Groundwater
Lab ID: 16H0152-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/18/16 12:14	B6H1005	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/09/16 13:03	B6H0458	MB1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.528	0.528		ug/L		08/12/16 15:57	B6H0498	LP
Atrazine	< 0.528	0.528		ug/L		08/12/16 15:57	B6H0498	LP
Chlordane	< 0.528	0.528		ug/L		08/12/16 15:57	B6H0498	LP
Endrin	< 0.0528	0.0528		ug/L		08/12/16 15:57	B6H0498	LP
Lindane	< 0.0528	0.0528		ug/L		08/12/16 15:57	B6H0498	LP
Heptachlor	< 0.0528	0.0528		ug/L		08/12/16 15:57	B6H0498	LP
Heptachlor epoxide	< 0.0528	0.0528		ug/L		08/12/16 15:57	B6H0498	LP
Methoxychlor	< 0.0528	0.0528		ug/L		08/12/16 15:57	B6H0498	LP
Simazine	< 0.528	0.528		ug/L		08/12/16 15:57	B6H0498	LP
Toxaphene	< 2.11	2.11		ug/L		08/12/16 15:57	B6H0498	LP
Surrogate: Decachlorobiphenyl				*Recovery: 109%*	*Limits: 30-109*	*08/12/16 15:57*	*B6H0498*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 63%*	*Limits: 21-124*	*08/12/16 15:57*	*B6H0498*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Aroclor 1221	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Aroclor 1232	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Aroclor 1242	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Aroclor 1248	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Aroclor 1254	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Aroclor 1260	< 0.317	0.317		ug/L		08/16/16 14:15	B6H0499	PM1
Total PCB	< 1.06	1.06		ug/L		08/16/16 14:15	B6H0499	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 75%*	*Limits: 40-135*	*08/16/16 14:15*	*B6H0499*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 46%*	*Limits: 13-133*	*08/16/16 14:15*	*B6H0499*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/16/16 12:30	B6H0874	MNN
Carbofuran	< 2.00	2.00		ug/L		08/16/16 12:30	B6H0874	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		08/11/16 19:44	B6H0472	AMP
2,4-D	< 1.48	1.48		ug/L		08/11/16 19:44	B6H0472	AMP
Dinoseb	< 1.48	1.48		ug/L		08/11/16 19:44	B6H0472	AMP
Picloram	< 1.48	1.48		ug/L		08/11/16 19:44	B6H0472	AMP

Response to 1st RTP
CWLP - 02961

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-1
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:50
Matrix: Groundwater
Lab ID: 16H0152-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 69%*	*Limits: 37-152*	*08/11/16 19:44*	*B6H0472*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Benzene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/06/16 12:53	B6H0617	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
cis-1,2-Dichloroethene	< 8.00	8.00		ug/L		08/06/16 12:53	B6H0617	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Dichloromethane	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Styrene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/06/16 12:53	B6H0617	XN
Toluene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		08/06/16 12:53	B6H0617	XN
Trichloroethene	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/06/16 12:53	B6H0617	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/06/16 12:53	B6H0617	XN
Surrogate: Dibromofluoromethane				*Recovery: 117%*	*Limits: 80-119*	*08/06/16 12:53*	*B6H0617*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 125%*	*Limits: 81-118*	*08/06/16 12:53*	*B6H0617*	*XN*
Surrogate: Fluorobenzene				*Recovery: 102%*	*Limits: 80-116*	*08/06/16 12:53*	*B6H0617*	*XN*
Surrogate: Toluene-d8				*Recovery: 99%*	*Limits: 89-112*	*08/06/16 12:53*	*B6H0617*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 85-114*	*08/06/16 12:53*	*B6H0617*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 115%*	*Limits: 70-120*	*08/06/16 12:53*	*B6H0617*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0921	0.0921		ug/L		08/16/16 13:01	B6H0972	LP
Ethylene Dibromide	< 0.0921	0.0921		ug/L		08/16/16 13:01	B6H0972	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		08/16/16 15:04	B6H0848	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 116%*	*Limits: 70-130*	*08/16/16 15:04*	*B6H0848*	*LP*

Response to 1st RTP
CWLP - 02962

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-1
Report Date: 09/07/2016
Collection Date: 08/04/2016 07:50
Matrix: Groundwater
Lab ID: 16H0152-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		08/13/16 00:16	B6H0589	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 127%*	*Limits: 20-200*	*08/13/16 00:16*	*B6H0589*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.67	5.67		ug/L		08/09/16 16:17	B6H0433	JN1
o-Dichlorobenzene	< 5.67	5.67		ug/L		08/09/16 16:17	B6H0433	JN1
p-Dichlorobenzene	< 5.67	5.67		ug/L		08/09/16 16:17	B6H0433	JN1
Benzo(a)pyrene	< 11.3	11.3		ug/L		08/09/16 16:17	B6H0433	JN1
Di(2-ethylhexyl)phthalate	< 11.3	11.3		ug/L		08/09/16 16:17	B6H0433	JN1
Hexachlorocyclopentadiene	< 28.3	28.3		ug/L		08/09/16 16:17	B6H0433	JN1
Pentachlorophenol	< 113	113		ug/L		08/09/16 16:17	B6H0433	JN1
Surrogate: 2-Fluorophenol				*Recovery: 30%*	*Limits: 4-108*	*08/09/16 16:17*	*B6H0433*	*JN1*
Surrogate: Phenol-d5				*Recovery: 19%*	*Limits: 1-101*	*08/09/16 16:17*	*B6H0433*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*08/09/16 16:17*	*B6H0433*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 61%*	*Limits: 28-124*	*08/09/16 16:17*	*B6H0433*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 49%*	*Limits: 11-102*	*08/09/16 16:17*	*B6H0433*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 123%*	*Limits: 79-162*	*08/09/16 16:17*	*B6H0433*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**1.2**	1		pCi/L		08/30/16 00:00	16H0152-02	UL
Radium-228	**0.74**	1		pCi/L		08/30/16 00:00	16H0152-02	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		08/14/16 00:00	16H0152-02	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-2
Report Date: 09/07/2016
Collection Date: 08/04/2016 08:35
Matrix: Groundwater
Lab ID: 16H0152-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1350**			uS/cm	08/04/16 08:35	B6H1314	CD
Method: SM2550-B							
Temperature	**69.4**			°F	08/04/16 08:35	B6H1314	CD
Method: SM4500-H							
pH	**6.77**	0.05		pH Units	08/04/16 08:35	B6H1314	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Arsenic	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Barium	**79.5**	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Beryllium	< 2.50	2.50		ug/L	08/11/16 17:57	B6H0473	AG
Boron	**4400**	12.5		ug/L	08/11/16 17:57	B6H0473	AG
Cadmium	< 2.50	2.50		ug/L	08/11/16 17:57	B6H0473	AG
Calcium	**191**	0.125		mg/L	08/11/16 17:57	B6H0473	AG
Chromium	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Cobalt	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Copper	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Iron	**2560**	125		ug/L	08/11/16 17:57	B6H0473	AG
Lead	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Manganese	**7210**	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/11/16 17:57	B6H0473	AG
Nickel	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Selenium	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Silver	< 2.50	2.50		ug/L	08/11/16 17:57	B6H0473	AG
Thallium	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Zinc	< 25.0	25.0		ug/L	08/11/16 17:57	B6H0473	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/23/16 12:45	B6H1223	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**40.2**	3.00		mg/L	08/05/16 21:31	B6H0291	NB1
Fluoride	< 0.500	0.500		mg/L	08/05/16 21:31	B6H0291	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/05/16 21:31	B6H0291	NB1
Sulfate	**335**	50.0		mg/L	08/08/16 19:29	B6H0382	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1020**	10.0		mg/L	08/10/16 13:25	B6H0564	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-2
Report Date: 09/07/2016
Collection Date: 08/04/2016 08:35
Matrix: Groundwater
Lab ID: 16H0152-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/18/16 13:17	B6H1006	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/09/16 13:03	B6H0458	MB1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.513	0.513		ug/L		08/12/16 16:44	B6H0498	LP
Atrazine	< 0.513	0.513		ug/L		08/12/16 16:44	B6H0498	LP
Chlordane	< 0.513	0.513		ug/L		08/12/16 16:44	B6H0498	LP
Endrin	< 0.0513	0.0513		ug/L		08/12/16 16:44	B6H0498	LP
Lindane	< 0.0513	0.0513		ug/L		08/12/16 16:44	B6H0498	LP
Heptachlor	< 0.0513	0.0513		ug/L		08/12/16 16:44	B6H0498	LP
Heptachlor epoxide	< 0.0513	0.0513		ug/L		08/12/16 16:44	B6H0498	LP
Methoxychlor	< 0.0513	0.0513		ug/L		08/12/16 16:44	B6H0498	LP
Simazine	< 0.513	0.513		ug/L		08/12/16 16:44	B6H0498	LP
Toxaphene	< 2.05	2.05		ug/L		08/12/16 16:44	B6H0498	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 117%*	*Limits: 30-109*	*08/12/16 16:44*	*B6H0498*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 57%*	*Limits: 21-124*	*08/12/16 16:44*	*B6H0498*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Aroclor 1221	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Aroclor 1232	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Aroclor 1242	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Aroclor 1248	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Aroclor 1254	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Aroclor 1260	< 0.308	0.308		ug/L		08/16/16 14:42	B6H0499	PM1
Total PCB	< 1.03	1.03		ug/L		08/16/16 14:42	B6H0499	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 84%*	*Limits: 40-135*	*08/16/16 14:42*	*B6H0499*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 13-133*	*08/16/16 14:42*	*B6H0499*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/16/16 13:02	B6H0874	MNN
Carbofuran	< 2.00	2.00		ug/L		08/16/16 13:02	B6H0874	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.46	1.46		ug/L		08/11/16 20:25	B6H0472	AMP
2,4-D	< 1.46	1.46		ug/L		08/11/16 20:25	B6H0472	AMP
Dinoseb	< 1.46	1.46		ug/L		08/11/16 20:25	B6H0472	AMP
Picloram	< 1.46	1.46		ug/L		08/11/16 20:25	B6H0472	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-2
Report Date: 09/07/2016
Collection Date: 08/04/2016 08:35
Matrix: Groundwater
Lab ID: 16H0152-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 76%*	*Limits: 37-152*	*08/11/16 20:25*	*B6H0472*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Benzene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/06/16 13:23	B6H0617	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
cis-1,2-Dichloroethene	< 8.00	8.00		ug/L		08/06/16 13:23	B6H0617	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Dichloromethane	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Styrene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/06/16 13:23	B6H0617	XN
Toluene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		08/06/16 13:23	B6H0617	XN
Trichloroethene	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/06/16 13:23	B6H0617	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/06/16 13:23	B6H0617	XN
Surrogate: Dibromofluoromethane			*S*	*Recovery: 120%*	*Limits: 80-119*	*08/06/16 13:23*	*B6H0617*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 123%*	*Limits: 81-118*	*08/06/16 13:23*	*B6H0617*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*08/06/16 13:23*	*B6H0617*	*XN*
Surrogate: Toluene-d8				*Recovery: 95%*	*Limits: 89-112*	*08/06/16 13:23*	*B6H0617*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 99%*	*Limits: 85-114*	*08/06/16 13:23*	*B6H0617*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 114%*	*Limits: 70-120*	*08/06/16 13:23*	*B6H0617*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0921	0.0921		ug/L		08/16/16 13:33	B6H0972	LP
Ethylene Dibromide	< 0.0921	0.0921		ug/L		08/16/16 13:33	B6H0972	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		08/16/16 15:43	B6H0848	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 123%*	*Limits: 70-130*	*08/16/16 15:43*	*B6H0848*	*LP*

Response to 1st RTP
CWLP - 02966

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-2
Report Date: 09/07/2016
Collection Date: 08/04/2016 08:35
Matrix: Groundwater
Lab ID: 16H0152-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		08/13/16 00:57	B6H0589	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 84%*	*Limits: 20-200*	*08/13/16 00:57*	*B6H0589*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.21	5.21		ug/L		08/09/16 17:01	B6H0433	JN1
o-Dichlorobenzene	< 5.21	5.21		ug/L		08/09/16 17:01	B6H0433	JN1
p-Dichlorobenzene	< 5.21	5.21		ug/L		08/09/16 17:01	B6H0433	JN1
Benzo(a)pyrene	< 10.4	10.4		ug/L		08/09/16 17:01	B6H0433	JN1
Di(2-ethylhexyl)phthalate	< 10.4	10.4		ug/L		08/09/16 17:01	B6H0433	JN1
Hexachlorocyclopentadiene	< 26.1	26.1		ug/L		08/09/16 17:01	B6H0433	JN1
Pentachlorophenol	< 104	104		ug/L		08/09/16 17:01	B6H0433	JN1
Surrogate: 2-Fluorophenol				*Recovery: 11%*	*Limits: 4-108*	*08/09/16 17:01*	*B6H0433*	*JN1*
Surrogate: Phenol-d5				*Recovery: 6%*	*Limits: 1-101*	*08/09/16 17:01*	*B6H0433*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 48%*	*Limits: 23-119*	*08/09/16 17:01*	*B6H0433*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 61%*	*Limits: 28-124*	*08/09/16 17:01*	*B6H0433*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 40%*	*Limits: 11-102*	*08/09/16 17:01*	*B6H0433*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 116%*	*Limits: 79-162*	*08/09/16 17:01*	*B6H0433*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.26**	1		pCi/L		08/30/16 00:00	16H0152-03	UL
Radium-228	**1.2**	1		pCi/L		08/30/16 00:00	16H0152-03	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		08/14/16 00:00	16H0152-03	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 09:20
Matrix: Groundwater
Lab ID: 16H0152-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1230**			uS/cm	08/04/16 09:20	B6H1314	CD
Method: SM2550-B							
Temperature	**69.0**			°F	08/04/16 09:20	B6H1314	CD
Method: SM4500-H							
pH	**6.91**	0.05		pH Units	08/04/16 09:20	B6H1314	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Arsenic	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Barium	**106**	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Beryllium	< 2.50	2.50		ug/L	08/11/16 17:58	B6H0473	AG
Boron	**16500**	12.5		ug/L	08/11/16 17:58	B6H0473	AG
Cadmium	< 2.50	2.50		ug/L	08/11/16 17:58	B6H0473	AG
Calcium	**161**	0.125		mg/L	08/11/16 17:58	B6H0473	AG
Chromium	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Cobalt	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Copper	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Iron	**17800**	125		ug/L	08/11/16 17:58	B6H0473	AG
Lead	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Manganese	**7800**	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/11/16 17:58	B6H0473	AG
Nickel	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Selenium	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Silver	< 2.50	2.50		ug/L	08/11/16 17:58	B6H0473	AG
Thallium	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Zinc	< 25.0	25.0		ug/L	08/11/16 17:58	B6H0473	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/23/16 12:47	B6H1223	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**38.8**	3.00		mg/L	08/05/16 23:25	B6H0291	NB1
Fluoride	< 0.500	0.500		mg/L	08/05/16 23:25	B6H0291	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/05/16 23:25	B6H0291	NB1
Sulfate	**369**	50.0		mg/L	08/08/16 19:57	B6H0382	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**958**	10.0		mg/L	08/10/16 13:25	B6H0564	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 09:20
Matrix: Groundwater
Lab ID: 16H0152-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/18/16 13:17	B6H1006	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/09/16 13:03	B6H0458	MB1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.518	0.518		ug/L		08/12/16 17:30	B6H0498	LP
Atrazine	< 0.518	0.518		ug/L		08/12/16 17:30	B6H0498	LP
Chlordane	< 0.518	0.518		ug/L		08/12/16 17:30	B6H0498	LP
Endrin	< 0.0518	0.0518		ug/L		08/12/16 17:30	B6H0498	LP
Lindane	< 0.0518	0.0518		ug/L		08/12/16 17:30	B6H0498	LP
Heptachlor	< 0.0518	0.0518		ug/L		08/12/16 17:30	B6H0498	LP
Heptachlor epoxide	< 0.0518	0.0518		ug/L		08/12/16 17:30	B6H0498	LP
Methoxychlor	< 0.0518	0.0518		ug/L		08/12/16 17:30	B6H0498	LP
Simazine	< 0.518	0.518		ug/L		08/12/16 17:30	B6H0498	LP
Toxaphene	< 2.07	2.07		ug/L		08/12/16 17:30	B6H0498	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 115%*	*Limits: 30-109*	*08/12/16 17:30*	*B6H0498*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 54%*	*Limits: 21-124*	*08/12/16 17:30*	*B6H0498*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Aroclor 1221	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Aroclor 1232	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Aroclor 1242	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Aroclor 1248	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Aroclor 1254	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Aroclor 1260	< 0.311	0.311		ug/L		08/16/16 15:08	B6H0499	PM1
Total PCB	< 1.04	1.04		ug/L		08/16/16 15:08	B6H0499	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 97%*	*Limits: 40-135*	*08/16/16 15:08*	*B6H0499*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 52%*	*Limits: 13-133*	*08/16/16 15:08*	*B6H0499*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/16/16 13:34	B6H0874	MNN
Carbofuran	< 2.00	2.00		ug/L		08/16/16 13:34	B6H0874	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.41	1.41		ug/L		08/11/16 21:07	B6H0472	AMP
2,4-D	< 1.41	1.41		ug/L		08/11/16 21:07	B6H0472	AMP
Dinoseb	< 1.41	1.41		ug/L		08/11/16 21:07	B6H0472	AMP
Picloram	< 1.41	1.41		ug/L		08/11/16 21:07	B6H0472	AMP

Response to 1st RTP
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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 09:20
Matrix: Groundwater
Lab ID: 16H0152-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 81%*	*Limits: 37-152*	*08/11/16 21:07*	*B6H0472*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Benzene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/06/16 13:53	B6H0617	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
cis-1,2-Dichloroethene	< 8.00	8.00		ug/L		08/06/16 13:53	B6H0617	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Dichloromethane	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Styrene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/06/16 13:53	B6H0617	XN
Toluene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		08/06/16 13:53	B6H0617	XN
Trichloroethene	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/06/16 13:53	B6H0617	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/06/16 13:53	B6H0617	XN
Surrogate: Dibromofluoromethane			*S*	*Recovery: 120%*	*Limits: 80-119*	*08/06/16 13:53*	*B6H0617*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 125%*	*Limits: 81-118*	*08/06/16 13:53*	*B6H0617*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*08/06/16 13:53*	*B6H0617*	*XN*
Surrogate: Toluene-d8				*Recovery: 95%*	*Limits: 89-112*	*08/06/16 13:53*	*B6H0617*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*	*08/06/16 13:53*	*B6H0617*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 116%*	*Limits: 70-120*	*08/06/16 13:53*	*B6H0617*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.100	0.100		ug/L		08/16/16 14:35	B6H0972	LP
Ethylene Dibromide	< 0.100	0.100		ug/L		08/16/16 14:35	B6H0972	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		08/16/16 16:21	B6H0848	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 118%*	*Limits: 70-130*	*08/16/16 16:21*	*B6H0848*	*LP*

Response to 1st RTP
CWLP - 02970

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-3
Report Date: 09/07/2016
Collection Date: 08/04/2016 09:20
Matrix: Groundwater
Lab ID: 16H0152-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		08/13/16 01:37	B6H0589	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 130%*	*Limits: 20-200*	*08/13/16 01:37*	*B6H0589*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.11	5.11		ug/L		08/09/16 17:45	B6H0433	JN1
o-Dichlorobenzene	< 5.11	5.11		ug/L		08/09/16 17:45	B6H0433	JN1
p-Dichlorobenzene	< 5.11	5.11		ug/L		08/09/16 17:45	B6H0433	JN1
Benzo(a)pyrene	< 10.2	10.2		ug/L		08/09/16 17:45	B6H0433	JN1
Di(2-ethylhexyl)phthalate	< 10.2	10.2		ug/L		08/09/16 17:45	B6H0433	JN1
Hexachlorocyclopentadiene	< 25.6	25.6		ug/L		08/09/16 17:45	B6H0433	JN1
Pentachlorophenol	< 102	102		ug/L		08/09/16 17:45	B6H0433	JN1
Surrogate: 2-Fluorophenol				*Recovery: 16%*	*Limits: 4-108*	*08/09/16 17:45*	*B6H0433*	*JN1*
Surrogate: Phenol-d5				*Recovery: 9%*	*Limits: 1-101*	*08/09/16 17:45*	*B6H0433*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 72%*	*Limits: 23-119*	*08/09/16 17:45*	*B6H0433*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 87%*	*Limits: 28-124*	*08/09/16 17:45*	*B6H0433*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 44%*	*Limits: 11-102*	*08/09/16 17:45*	*B6H0433*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 109%*	*Limits: 79-162*	*08/09/16 17:45*	*B6H0433*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.17**	1		pCi/L		08/30/16 00:00	16H0152-04	UL
Radium-228	**1.2**	1		pCi/L		08/30/16 00:00	16H0152-04	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		08/14/16 00:00	16H0152-04	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-4
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:15
Matrix: Groundwater
Lab ID: 16H0152-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**920**			uS/cm	08/04/16 10:15	B6H1314	CD
Method: SM2550-B							
Temperature	**70.8**			°F	08/04/16 10:15	B6H1314	CD
Method: SM4500-H							
pH	**7.13**	0.05		pH Units	08/04/16 10:15	B6H1314	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Arsenic	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Barium	**381**	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Beryllium	< 2.50	2.50		ug/L	08/11/16 18:00	B6H0473	AG
Boron	**131**	12.5		ug/L	08/11/16 18:00	B6H0473	AG
Cadmium	< 2.50	2.50		ug/L	08/11/16 18:00	B6H0473	AG
Calcium	**118**	0.125		mg/L	08/11/16 18:00	B6H0473	AG
Chromium	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Cobalt	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Copper	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Iron	**11700**	125		ug/L	08/11/16 18:00	B6H0473	AG
Lead	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Manganese	**153**	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/11/16 18:00	B6H0473	AG
Nickel	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Selenium	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Silver	< 2.50	2.50		ug/L	08/11/16 18:00	B6H0473	AG
Thallium	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Zinc	< 25.0	25.0		ug/L	08/11/16 18:00	B6H0473	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/23/16 12:52	B6H1223	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**11.3**	3.00		mg/L	08/05/16 23:54	B6H0291	NB1
Fluoride	< 0.500	0.500		mg/L	08/05/16 23:54	B6H0291	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/05/16 23:54	B6H0291	NB1
Sulfate	< 5.00	5.00		mg/L	08/05/16 23:54	B6H0291	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**554**	10.0		mg/L	08/10/16 13:25	B6H0564	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-4
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:15
Matrix: Groundwater
Lab ID: 16H0152-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/18/16 13:17	B6H1006	MB1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/09/16 13:03	B6H0458	MB1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.519	0.519		ug/L		08/12/16 18:17	B6H0498	LP
Atrazine	< 0.519	0.519		ug/L		08/12/16 18:17	B6H0498	LP
Chlordane	< 0.519	0.519		ug/L		08/12/16 18:17	B6H0498	LP
Endrin	< 0.0519	0.0519		ug/L		08/12/16 18:17	B6H0498	LP
Lindane	< 0.0519	0.0519		ug/L		08/12/16 18:17	B6H0498	LP
Heptachlor	< 0.0519	0.0519		ug/L		08/12/16 18:17	B6H0498	LP
Heptachlor epoxide	< 0.0519	0.0519		ug/L		08/12/16 18:17	B6H0498	LP
Methoxychlor	< 0.0519	0.0519		ug/L		08/12/16 18:17	B6H0498	LP
Simazine	< 0.519	0.519		ug/L		08/12/16 18:17	B6H0498	LP
Toxaphene	< 2.08	2.08		ug/L		08/12/16 18:17	B6H0498	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 114%*	*Limits: 30-109*	*08/12/16 18:17*	*B6H0498*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 58%*	*Limits: 21-124*	*08/12/16 18:17*	*B6H0498*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Aroclor 1221	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Aroclor 1232	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Aroclor 1242	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Aroclor 1248	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Aroclor 1254	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Aroclor 1260	< 0.311	0.311		ug/L		08/16/16 15:35	B6H0499	PM1
Total PCB	< 1.04	1.04		ug/L		08/16/16 15:35	B6H0499	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 40-135*	*08/16/16 15:35*	*B6H0499*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 13-133*	*08/16/16 15:35*	*B6H0499*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/16/16 14:06	B6H0874	MNN
Carbofuran	< 2.00	2.00		ug/L		08/16/16 14:06	B6H0874	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		08/11/16 21:48	B6H0472	AMP
2,4-D	< 1.48	1.48		ug/L		08/11/16 21:48	B6H0472	AMP
Dinoseb	< 1.48	1.48		ug/L		08/11/16 21:48	B6H0472	AMP
Picloram	< 1.48	1.48		ug/L		08/11/16 21:48	B6H0472	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-4
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:15
Matrix: Groundwater
Lab ID: 16H0152-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 76%*	*Limits: 37-152*	*08/11/16 21:48*	*B6H0472*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Benzene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/06/16 14:23	B6H0617	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
cis-1,2-Dichloroethene	< 8.00	8.00		ug/L		08/06/16 14:23	B6H0617	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Dichloromethane	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Styrene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/06/16 14:23	B6H0617	XN
Toluene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		08/06/16 14:23	B6H0617	XN
Trichloroethene	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/06/16 14:23	B6H0617	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/06/16 14:23	B6H0617	XN
Surrogate: Dibromofluoromethane			*S*	*Recovery: 121%*	*Limits: 80-119*	*08/06/16 14:23*	*B6H0617*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 127%*	*Limits: 81-118*	*08/06/16 14:23*	*B6H0617*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*08/06/16 14:23*	*B6H0617*	*XN*
Surrogate: Toluene-d8				*Recovery: 94%*	*Limits: 89-112*	*08/06/16 14:23*	*B6H0617*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 85-114*	*08/06/16 14:23*	*B6H0617*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 119%*	*Limits: 70-120*	*08/06/16 14:23*	*B6H0617*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0972	0.0972		ug/L		08/16/16 15:07	B6H0972	LP
Ethylene Dibromide	< 0.0972	0.0972		ug/L		08/16/16 15:07	B6H0972	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		08/16/16 16:59	B6H0848	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 121%*	*Limits: 70-130*	*08/16/16 16:59*	*B6H0848*	*LP*

Response to 1st RTP
CWLP - 02974

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-4
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:15
Matrix: Groundwater
Lab ID: 16H0152-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		08/13/16 02:17	B6H0589	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 127%*	*Limits: 20-200*	*08/13/16 02:17*	*B6H0589*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.37	5.37		ug/L		08/09/16 18:28	B6H0433	JN1
o-Dichlorobenzene	< 5.37	5.37		ug/L		08/09/16 18:28	B6H0433	JN1
p-Dichlorobenzene	< 5.37	5.37		ug/L		08/09/16 18:28	B6H0433	JN1
Benzo(a)pyrene	< 10.7	10.7		ug/L		08/09/16 18:28	B6H0433	JN1
Di(2-ethylhexyl)phthalate	< 10.7	10.7		ug/L		08/09/16 18:28	B6H0433	JN1
Hexachlorocyclopentadiene	< 26.8	26.8		ug/L		08/09/16 18:28	B6H0433	JN1
Pentachlorophenol	< 107	107		ug/L		08/09/16 18:28	B6H0433	JN1
Surrogate: 2-Fluorophenol				*Recovery: 35%*	*Limits: 4-108*	*08/09/16 18:28*	*B6H0433*	*JN1*
Surrogate: Phenol-d5				*Recovery: 22%*	*Limits: 1-101*	*08/09/16 18:28*	*B6H0433*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*08/09/16 18:28*	*B6H0433*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 68%*	*Limits: 28-124*	*08/09/16 18:28*	*B6H0433*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 42%*	*Limits: 11-102*	*08/09/16 18:28*	*B6H0433*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 113%*	*Limits: 79-162*	*08/09/16 18:28*	*B6H0433*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.3**	1		pCi/L		08/30/16 00:00	16H0152-05	UL
Radium-228	**1.3**	1		pCi/L		08/30/16 00:00	16H0152-05	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		08/14/16 00:00	16H0152-05	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-5
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:55
Matrix: Groundwater
Lab ID: 16H0152-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**648**			uS/cm	08/04/16 10:55	B6H1314	JJ1
Method: SM2550-B							
Temperature	**60.4**			°F	08/04/16 10:55	B6H1314	JJ1
Method: SM4500-H							
pH	**6.83**	0.05		pH Units	08/04/16 10:55	B6H1314	JJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Arsenic	< 25.0	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Barium	**251**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Beryllium	< 2.50	2.50		ug/L	08/11/16 18:02	B6H0473	AG
Boron	**77.9**	12.5		ug/L	08/11/16 18:02	B6H0473	AG
Cadmium	< 2.50	2.50		ug/L	08/11/16 18:02	B6H0473	AG
Calcium	**158**	0.125		mg/L	08/11/16 18:02	B6H0473	AG
Chromium	**60.5**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Cobalt	**29.0**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Copper	**47.4**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Iron	**63900**	125		ug/L	08/11/16 18:02	B6H0473	AG
Lead	**28.6**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Manganese	**1400**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/11/16 18:02	B6H0473	AG
Nickel	**69.6**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Selenium	< 25.0	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Silver	< 2.50	2.50		ug/L	08/11/16 18:02	B6H0473	AG
Thallium	< 25.0	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Zinc	**169**	25.0		ug/L	08/11/16 18:02	B6H0473	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/23/16 12:54	B6H1223	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	08/06/16 00:22	B6H0291	NB1
Fluoride	< 0.500	0.500		mg/L	08/06/16 00:22	B6H0291	NB1
Nitrogen, Nitrate	**1.51**	0.500		mg/L	08/06/16 00:22	B6H0291	NB1
Sulfate	**50.8**	5.00		mg/L	08/06/16 00:22	B6H0291	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**474**	10.0		mg/L	08/10/16 13:25	B6H0564	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-5
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:55
Matrix: Groundwater
Lab ID: 16H0152-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units			Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)									
Method: SW9014 by Aquachem / SW9010B									
Cyanide	< 0.010	0.010		mg/L			08/18/16 13:17	B6H1006	MB1
Method: SW9065 by Aquachem									
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L			08/09/16 13:03	B6H0458	MB1
Organochlorine Pesticides by GC/ECD									
Method: SW8081B / SW3510									
Alachlor	< 0.525	0.525		ug/L			08/12/16 19:04	B6H0498	LP
Atrazine	< 0.525	0.525		ug/L			08/12/16 19:04	B6H0498	LP
Chlordane	< 0.525	0.525		ug/L			08/12/16 19:04	B6H0498	LP
Endrin	< 0.0525	0.0525		ug/L			08/12/16 19:04	B6H0498	LP
Lindane	< 0.0525	0.0525		ug/L			08/12/16 19:04	B6H0498	LP
Heptachlor	< 0.0525	0.0525		ug/L			08/12/16 19:04	B6H0498	LP
Heptachlor epoxide	< 0.0525	0.0525		ug/L			08/12/16 19:04	B6H0498	LP
Methoxychlor	< 0.0525	0.0525		ug/L			08/12/16 19:04	B6H0498	LP
Simazine	< 0.525	0.525		ug/L			08/12/16 19:04	B6H0498	LP
Toxaphene	< 2.10	2.10		ug/L			08/12/16 19:04	B6H0498	LP
Surrogate: Decachlorobiphenyl				*Recovery: 108%*	*Limits: 30-109*		*08/12/16 19:04*	*B6H0498*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 49%*	*Limits: 21-124*		*08/12/16 19:04*	*B6H0498*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Method: SW8082A / SW3510									
Aroclor 1016	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Aroclor 1221	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Aroclor 1232	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Aroclor 1242	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Aroclor 1248	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Aroclor 1254	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Aroclor 1260	< 0.315	0.315		ug/L			08/16/16 16:02	B6H0499	PM1
Total PCB	< 1.05	1.05		ug/L			08/16/16 16:02	B6H0499	PM1
Surrogate: Decachlorobiphenyl				*Recovery: 98%*	*Limits: 40-135*		*08/16/16 16:02*	*B6H0499*	*PM1*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 51%*	*Limits: 13-133*		*08/16/16 16:02*	*B6H0499*	*PM1*
Carbamates by High Pressure Liquid Chromatography (HPLC)									
Method: E531.1									
Aldicarb	< 2.00	2.00		ug/L			08/16/16 14:42	B6H0874	MNN
Carbofuran	< 2.00	2.00		ug/L			08/16/16 14:42	B6H0874	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)									
Method: SW8321B / SW3510									
2,4,5-TP (Silvex)	< 1.43	1.43		ug/L			08/11/16 22:29	B6H0472	AMP
2,4-D	< 1.43	1.43		ug/L			08/11/16 22:29	B6H0472	AMP
Dinoseb	< 1.43	1.43		ug/L			08/11/16 22:29	B6H0472	AMP
Picloram	< 1.43	1.43		ug/L			08/11/16 22:29	B6H0472	AMP

Response to 1st RTP
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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-5
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:55
Matrix: Groundwater
Lab ID: 16H0152-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 72%*	*Limits: 37-152*	*08/11/16 22:29*	*B6H0472*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
1,1,2-Trichloroethane	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
1,2-Dichloropropane	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Benzene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		08/06/16 14:53	B6H0617	XN
Chlorobenzene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
cis-1,2-Dichloroethene	< 8.00	8.00		ug/L		08/06/16 14:53	B6H0617	XN
Ethylbenzene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Methyl tert-butyl ether	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Dichloromethane	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Styrene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Tetrachloroethene	< 4.00	4.00		ug/L		08/06/16 14:53	B6H0617	XN
Toluene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		08/06/16 14:53	B6H0617	XN
Trichloroethene	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Vinyl chloride	< 2.00	2.00		ug/L		08/06/16 14:53	B6H0617	XN
Xylenes, Total	< 8.00	8.00		ug/L		08/06/16 14:53	B6H0617	XN
Surrogate: Dibromofluoromethane			*S*	*Recovery: 120%*	*Limits: 80-119*	*08/06/16 14:53*	*B6H0617*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 132%*	*Limits: 81-118*	*08/06/16 14:53*	*B6H0617*	*XN*
Surrogate: Fluorobenzene				*Recovery: 101%*	*Limits: 80-116*	*08/06/16 14:53*	*B6H0617*	*XN*
Surrogate: Toluene-d8				*Recovery: 94%*	*Limits: 89-112*	*08/06/16 14:53*	*B6H0617*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 85-114*	*08/06/16 14:53*	*B6H0617*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 116%*	*Limits: 70-120*	*08/06/16 14:53*	*B6H0617*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.0946	0.0946		ug/L		08/16/16 15:38	B6H0972	LP
Ethylene Dibromide	< 0.0946	0.0946		ug/L		08/16/16 15:38	B6H0972	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		08/16/16 13:47	B6H0848	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 128%*	*Limits: 70-130*	*08/16/16 13:47*	*B6H0848*	*LP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2016
Work Order: 16H0152

Client Sample ID: AP-5
Report Date: 09/07/2016
Collection Date: 08/04/2016 10:55
Matrix: Groundwater
Lab ID: 16H0152-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		08/12/16 18:55	B6H0589	JN1
Surrogate: 2,4,6-Tribromophenol				*Recovery: 128%*	*Limits: 20-200*	*08/12/16 18:55*	*B6H0589*	*JN1*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 5.43	5.43		ug/L		08/10/16 17:08	B6H0433	hhe
o-Dichlorobenzene	< 5.43	5.43		ug/L		08/10/16 17:08	B6H0433	hhe
p-Dichlorobenzene	< 5.43	5.43		ug/L		08/10/16 17:08	B6H0433	hhe
Benzo(a)pyrene	< 10.9	10.9		ug/L		08/10/16 17:08	B6H0433	hhe
Di(2-ethylhexyl)phthalate	< 10.9	10.9		ug/L		08/10/16 17:08	B6H0433	hhe
Hexachlorocyclopentadiene	< 27.2	27.2		ug/L		08/10/16 17:08	B6H0433	hhe
Pentachlorophenol	< 109	109		ug/L		08/10/16 17:08	B6H0433	hhe
Surrogate: 2-Fluorophenol				*Recovery: 36%*	*Limits: 4-108*	*08/10/16 17:08*	*B6H0433*	*hhe*
Surrogate: Phenol-d5				*Recovery: 23%*	*Limits: 1-101*	*08/10/16 17:08*	*B6H0433*	*hhe*
Surrogate: Nitrobenzene-d5				*Recovery: 54%*	*Limits: 23-119*	*08/10/16 17:08*	*B6H0433*	*hhe*
Surrogate: 2-Fluorobiphenyl				*Recovery: 64%*	*Limits: 28-124*	*08/10/16 17:08*	*B6H0433*	*hhe*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 47%*	*Limits: 11-102*	*08/10/16 17:08*	*B6H0433*	*hhe*
Surrogate: 4-Terphenyl-d14				*Recovery: 123%*	*Limits: 79-162*	*08/10/16 17:08*	*B6H0433*	*hhe*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.3**	1		pCi/L		08/30/16 00:00	16H0152-06	UL
Radium-228	**1**	1		pCi/L		08/30/16 00:00	16H0152-06	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		08/14/16 00:00	16H0152-06	TEST

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16H0152
PM: Jason Cristino
City, Water, Light & Power
List G20

CHAIN OF CUSTODY

Monitoring and Technologies

Page 1 of 1

IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

COC Number
Lab Work Order Number 16H0152

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: A. Szafran	Sampler Signature

Requested Analyses: SW8260B; E531.1; SM7500::SW6020B::SW7470A; E548.1::E552.1::SM2510B::SM2540C::; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 28
Expedited (days):
Due Date: 9/14/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3	08/04/16	07:55	G	W	22	3	1	3	11	1	2	1				DIABCDEFGHIJKLMN OPQR STU
AP-1			G	W	22	3	1	3	11	1	2	1				
AP-2			G	W	22	3	1	3	11	1	2	1				
AP-3			G	W	22	3	1	3	11	1	2	1				
AP-4			G	W	22	3	1	3	11	1	2	1				
AP-5			G	W	22	3	1	3	11	1	2	1				

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
A. Szafran	08/04/16 1156		8-4-16 1136		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	8-4-16 1510		8-4-16 1510		
Relinquished By	Date/Time	Received By	Date/Time		
		8/4/16	15:20		
Cooler Numbers and Temperatures: 2°C					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7 = 7.00 @07:30

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Environmental Monitoring and Technologies
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Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

COC Number

Lab Work Order Number 16H0152

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Requested Analyses: SW8260B; E531.1; SM7500::SW6020B::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 28

Expedited (days):

Due Date: 9/14/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3			G	W	22	3	1	3	11	1	2	1				
AP-1	8/4/16	0750	G	W	22	3	1	3	11	1	2	1				2ABCDEFGHIJKLMNOPQRSTU
AP-2	8/4/16	0835	G	W	22	3	1	3	11	1	2	1				3ABCDEFGHIJKLMNOPQRSTU
AP-3	8/4/16	0920	G	W	22	3	1	3	11	1	2	1				1ABCDEFGHIJKLMNOPQRSTU
AP-4	8/4/16	1015	G	W	22	3	1	3	11	1	2	1				5ABCDEFGHIJKLMNOPQRSTU
AP-5			G	W	22	3	1	3	11	1	2	1				

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Curtis Duncan	8/4/16 1150		8-4-16 1136		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	8-4-16 1510		8-4-16 1520		
Relinquished By	Date/Time	Received By	Date/Time		
		8/4/16	1520		
Cooler Numbers and Temperatures: 2° C					

Matrix Codes: W=Water

Preserv Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

PH 7 = 7.00 @ 0720

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Page 1 of 1

COC Number

Lab Work Order Number 16H0152

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone: (217) 757-8610	Fax: (217) 757-8615
Tracking Number	
Sampler: J. Sackson	Sampler Signature: Jacoby Jackson

Requested Analyses: SW8260B; E531.1; SM7500::SW6020B::SW7470A; E548.1::E552.1::SM2510B::SM2540C; SW9014 by Aquachem; E504.1; SW9065 by Aquachem

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days): 28

Expedited (days):

Due Date: 9/14/2016 17:00

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						5	8	3	9	4	8	2				
AW-3			G	W	22	3	1	3	11	1	2	1				
AP-1			G	W	22	3	1	3	11	1	2	1				
AP-2			G	W	22	3	1	3	11	1	2	1				
AP-3			G	W	22	3	1	3	11	1	2	1				
AP-4			G	W	22	3	1	3	11	1	2	1				
AP-5	08/04/16	1055	G	W	22	3	1	3	11	1	2	1				QGABCDEFGHIJKLMNOPQRSTC

Relinquished By	Date/Time	Received By	Date/Time	Sample Kit Prepared By	Date/Time
Jacoby Jackson	08/04/16 1130		8-4-16 1130		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
	8-4-16 1525		8-4-16 1520		
Relinquished By	Date/Time	Received By	Date/Time		
		8/4/16	15:20		
Cooler Numbers and Temperatures: 2°C					

Matrix Codes: W=Water

Preserv. Codes: 5=Hydrochloric acid (HCl) pH <2, Store at 4 C,8=MCA, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,9=N

pH 7=7.00 @ 1020

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

December 30, 2016

Work Order: 16K0303

RE: List G20
4Q 2016

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 12/29/2016 4:11:29PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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CWLP - 02984

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3	16K0303-01	Groundwater	11/18/16 09:10	11/18/16 13:54
AP-1	16K0303-02	Groundwater	11/18/16 08:40	11/18/16 13:54
AP-2	16K0303-03	Groundwater	11/18/16 08:00	11/18/16 13:54
AP-3	16K0303-04	Groundwater	11/18/16 07:20	11/18/16 13:54
AP-4	16K0303-05	Groundwater	11/18/16 10:10	11/18/16 13:54
AP-5	16K0303-06	Groundwater	11/18/16 10:00	11/18/16 13:54
AW-3	16K0303-01	Groundwater	11/18/16 09:10	11/18/16 13:54
AP-1	16K0303-02	Groundwater	11/18/16 08:40	11/18/16 13:54
AP-2	16K0303-03	Groundwater	11/18/16 08:00	11/18/16 13:54
AP-3	16K0303-04	Groundwater	11/18/16 07:20	11/18/16 13:54
AP-4	16K0303-05	Groundwater	11/18/16 10:10	11/18/16 13:54
AP-5	16K0303-06	Groundwater	11/18/16 10:00	11/18/16 13:54
AW-3	16K0303-01	Groundwater	11/18/16 09:10	11/18/16 13:54
AP-1	16K0303-02	Groundwater	11/18/16 08:40	11/18/16 13:54
AP-2	16K0303-03	Groundwater	11/18/16 08:00	11/18/16 13:54
AP-3	16K0303-04	Groundwater	11/18/16 07:20	11/18/16 13:54
AP-4	16K0303-05	Groundwater	11/18/16 10:10	11/18/16 13:54
AP-5	16K0303-06	Groundwater	11/18/16 10:00	11/18/16 13:54

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Case Narrative

Client: City, Water, Light & Power **Date:** 12/30/2016
Project: List G20
4Q 2016
Work Order: 16K0303

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 16K0303
The samples were received on11/18/16 13:54. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	3.2

degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed.

Samples 16K0303-02, 05, and 06 were decanted prior to the Radium 226 and 228 analysis due to the sediment in the samples that would interfere with the test.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles

Method: 8082A_PCB, 16K0303-01: One surrogate recovery was above the limit due to matrix interference.

Method: 8082A_PCB, B6K0909-BS1/BSD1: RPD for one spike compound was outside of the limit. Compound in question was not detected in the associated sample.

Method: 8082A_PCB, S6L0041-CCV3: The recoveries of two compounds in the bracketing CCV were above the limits. However, compounds in question were not detected in the associated sample.

HPLC

Method: 8321_HERB, B6K0838-BS1/BSD1: LCS/LCSD recovery for Picloram was above the QC limit. The compound in question was not detected in the associated samples.

GC Semivolatiles

Method: 552_Dalapon, 16K0303-02: Surrogate recovery was above the limit due to matrix interference.

Method: 552_Dalapon, S6L0162-CCV2: The recovery of one compound in the bracketing CCV was above the limit. However, the compound in question was not detected in the associated sample.

Method: 8081B_PEST, 16K0303-01, 02, 03, 05: The recovery for one surrogate was above the limit.

Method: 8081B_PEST, S6L0190-CCV1: The recovery for one compound in the CCV was above the limit. However, the compound in question was not detected in the associated sample.

Method: 8081B_PEST, S6L0190-CCV3: The recoveries of some compounds in the bracketing CCV were above the limits. However, the compounds in question were not detected in the associated sample.

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

GC/MS Volatiles

Method: 8260B_VOC, B6L0025-BLK1: Method blank is contaminated above MDL but below the MRL with Tetrachloroethane. This compound was not detected in the associated samples.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AW-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 09:10
Matrix: Groundwater
Lab ID: 16K0303-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**719**			uS/cm	11/18/16 09:10	B6K0853	AS5
Method: SM2550-B							
Temperature	**56.7**			°F	11/18/16 09:10	B6K0853	AS5
Method: SM4500-H							
pH	**7.48**	0.05		pH Units	11/18/16 09:10	B6K0853	AS5
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Arsenic	**224**	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Barium	**197**	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Beryllium	< 2.50	2.50		ug/L	11/23/16 14:32	B6K0988	AG
Boron	**200**	12.5		ug/L	11/23/16 14:32	B6K0988	AG
Cadmium	< 2.50	2.50		ug/L	11/23/16 14:32	B6K0988	AG
Calcium	**72.8**	2.50		mg/L	11/23/16 14:53	B6K0988	AG
Chromium	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Cobalt	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Copper	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Iron	**11500**	125		ug/L	11/23/16 14:32	B6K0988	AG
Lead	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Manganese	**296**	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/23/16 14:32	B6K0988	AG
Nickel	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Selenium	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Silver	< 2.50	2.50		ug/L	11/23/16 14:32	B6K0988	AG
Thallium	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Zinc	< 25.0	25.0		ug/L	11/23/16 14:32	B6K0988	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/29/16 11:45	B6K1097	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**23.0**	3.00		mg/L	11/18/16 20:10	B6K0824	NB1
Fluoride	< 0.500	0.500		mg/L	11/18/16 20:10	B6K0824	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/18/16 20:10	B6K0824	NB1
Sulfate	**8.74**	5.00		mg/L	11/18/16 20:10	B6K0824	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**476**	10.0		mg/L	11/22/16 11:01	B6K0936	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AW-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 09:10
Matrix: Groundwater
Lab ID: 16K0303-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/30/16 12:01	B6K1151	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/30/16 17:00	B6K1193	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.511	0.511		ug/L		12/12/16 20:34	B6K1005	LP
Atrazine	< 0.511	0.511		ug/L		12/12/16 20:34	B6K1005	LP
Chlordane	< 0.511	0.511		ug/L		12/12/16 19:47	B6K1005	LP
Endrin	< 0.0511	0.0511		ug/L		12/12/16 19:47	B6K1005	LP
Lindane	< 0.0511	0.0511		ug/L		12/12/16 19:47	B6K1005	LP
Heptachlor	< 0.0511	0.0511		ug/L		12/12/16 19:47	B6K1005	LP
Heptachlor epoxide	< 0.0511	0.0511		ug/L		12/12/16 19:47	B6K1005	LP
Methoxychlor	< 0.0511	0.0511		ug/L		12/12/16 19:47	B6K1005	LP
Simazine	< 0.511	0.511		ug/L		12/12/16 20:34	B6K1005	LP
Toxaphene	< 2.05	2.05		ug/L		12/12/16 19:47	B6K1005	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 111%*	*Limits: 30-109*	*12/12/16 19:47*	*B6K1005*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 74%*	*Limits: 21-124*	*12/12/16 19:47*	*B6K1005*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/29/16 15:12	B6L0053	MNN
Carbofuran	< 2.00	2.00		ug/L		11/29/16 15:12	B6L0053	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.995	0.995		ug/L		11/22/16 20:52	B6K0838	MNN
2,4-D	< 0.995	0.995		ug/L		11/22/16 20:52	B6K0838	MNN
Dinoseb	< 0.995	0.995		ug/L		11/22/16 20:52	B6K0838	MNN
Picloram	< 0.995	0.995		ug/L		11/22/16 20:52	B6K0838	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 86%*	*Limits: 37-152*	*11/22/16 20:52*	*B6K0838*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
1,1-Dichloroethene	< 0.400	0.400		ug/L		11/25/16 15:01	B6L0025	XN
1,2-Dichloroethane	< 0.400	0.400		ug/L		11/25/16 15:01	B6L0025	XN
1,2-Dichloropropane	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Benzene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Carbon tetrachloride	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Chlorobenzene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN

Response to 1st RTP
CWLP - 02989

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AW-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 09:10
Matrix: Groundwater
Lab ID: 16K0303-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5030 (Continued)								
Ethylbenzene	< 0.400	0.400		ug/L		11/25/16 15:01	B6L0025	XN
Methyl tert-butyl ether	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Dichloromethane	< 0.400	0.400		ug/L		11/25/16 15:01	B6L0025	XN
Styrene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Tetrachloroethene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Toluene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Trichloroethene	< 0.800	0.800		ug/L		11/25/16 15:01	B6L0025	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/16 15:01	B6L0025	XN
Xylenes, Total	< 4.00	4.00		ug/L		11/25/16 15:01	B6L0025	XN
Surrogate: Dibromofluoromethane				*Recovery: 105%*	*Limits: 80-119*	*11/25/16 15:01*	*B6L0025*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 81-118*	*11/25/16 15:01*	*B6L0025*	*XN*
Surrogate: Fluorobenzene				*Recovery: 95%*	*Limits: 80-116*	*11/25/16 15:01*	*B6L0025*	*XN*
Surrogate: Toluene-d8				*Recovery: 90%*	*Limits: 89-112*	*11/25/16 15:01*	*B6L0025*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 95%*	*Limits: 85-114*	*11/25/16 15:01*	*B6L0025*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 114%*	*Limits: 70-120*	*11/25/16 15:01*	*B6L0025*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.200	0.200		ug/L		12/07/16 13:46	B6L0406	LP
Ethylene Dibromide	< 0.200	0.200		ug/L		12/07/16 13:46	B6L0406	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		12/08/16 21:16	B6L0323	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 119%*	*Limits: 70-130*	*12/08/16 21:16*	*B6L0323*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/01/16 12:37	B6K0937	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 138%*	*Limits: 20-200*	*12/01/16 12:37*	*B6K0937*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.10	4.10		ug/L		11/29/16 19:20	B6K0947	JN1
o-Dichlorobenzene	< 2.05	2.05		ug/L		11/29/16 19:20	B6K0947	JN1
p-Dichlorobenzene	< 2.05	2.05		ug/L		11/29/16 19:20	B6K0947	JN1
Benzo(a)pyrene	< 4.10	4.10		ug/L		11/29/16 19:20	B6K0947	JN1
Di(2-ethylhexyl)phthalate	< 25.6	25.6		ug/L		11/29/16 19:20	B6K0947	JN1
Hexachlorocyclopentadiene	< 10.2	10.2		ug/L		11/29/16 19:20	B6K0947	JN1
Pentachlorophenol	< 51.2	51.2		ug/L		11/29/16 19:20	B6K0947	JN1
Surrogate: 2-Fluorophenol				*Recovery: 26%*	*Limits: 4-108*	*11/29/16 19:20*	*B6K0947*	*JN1*
Surrogate: Phenol-d5				*Recovery: 20%*	*Limits: 1-101*	*11/29/16 19:20*	*B6K0947*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 42%*	*Limits: 23-119*	*11/29/16 19:20*	*B6K0947*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 52%*	*Limits: 28-124*	*11/29/16 19:20*	*B6K0947*	*JN1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AW-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 09:10
Matrix: Groundwater
Lab ID: 16K0303-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510 (Continued)								
Surrogate: 2,4,6-Tribromophenol				*Recovery: 34%*	*Limits: 11-102*	*11/29/16 19:20*	*B6K0947*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 98%*	*Limits: 79-162*	*11/29/16 19:20*	*B6K0947*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.33**	0.12		pCi/L		12/19/16 00:00	16K0303-01	UL
Radium-228	**1.2**	0.36		pCi/L		12/19/16 00:00	16K0303-01	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		11/28/16 00:00	16K0303-01	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-1
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:40
Matrix: Groundwater
Lab ID: 16K0303-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1510**			uS/cm	11/18/16 08:40	B6K0853	CD
Method: SM2550-B							
Temperature	**62.6**			°F	11/18/16 08:40	B6K0853	CD
Method: SM4500-H							
pH	**6.85**	0.05		pH Units	11/18/16 08:40	B6K0853	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Arsenic	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Barium	**433**	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Beryllium	< 2.50	2.50		ug/L	11/23/16 14:34	B6K0988	AG
Boron	**17300**	250		ug/L	11/23/16 14:55	B6K0988	AG
Cadmium	< 2.50	2.50		ug/L	11/23/16 14:34	B6K0988	AG
Calcium	**196**	2.50		mg/L	11/23/16 14:55	B6K0988	AG
Chromium	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Cobalt	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Copper	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Iron	**25000**	125		ug/L	11/23/16 14:34	B6K0988	AG
Lead	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Manganese	**399**	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/23/16 14:34	B6K0988	AG
Nickel	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Selenium	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Silver	< 2.50	2.50		ug/L	11/23/16 14:34	B6K0988	AG
Thallium	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Zinc	< 25.0	25.0		ug/L	11/23/16 14:34	B6K0988	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/29/16 11:47	B6K1097	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**47.3**	3.00		mg/L	11/18/16 20:37	B6K0824	NB1
Fluoride	< 0.500	0.500		mg/L	11/18/16 20:37	B6K0824	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/18/16 20:37	B6K0824	NB1
Sulfate	**589**	50.0		mg/L	11/19/16 18:52	B6K0858	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1320**	10.0		mg/L	11/22/16 11:01	B6K0936	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-1
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:40
Matrix: Groundwater
Lab ID: 16K0303-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/30/16 12:01	B6K1151	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/23/16 14:13	B6K0985	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.517	0.517		ug/L		12/12/16 21:21	B6K1005	LP
Atrazine	< 0.517	0.517		ug/L		12/12/16 21:21	B6K1005	LP
beta-BHC	< 0.0517	0.0517		ug/L		12/12/16 20:34	B6K1005	LP
Chlordane	< 0.517	0.517		ug/L		12/12/16 20:34	B6K1005	LP
Endrin	< 0.0517	0.0517		ug/L		12/12/16 20:34	B6K1005	LP
Lindane	< 0.0517	0.0517		ug/L		12/12/16 20:34	B6K1005	LP
Heptachlor	< 0.0517	0.0517		ug/L		12/12/16 20:34	B6K1005	LP
Heptachlor epoxide	< 0.0517	0.0517		ug/L		12/12/16 20:34	B6K1005	LP
Methoxychlor	< 0.0517	0.0517		ug/L		12/12/16 20:34	B6K1005	LP
Simazine	< 0.517	0.517		ug/L		12/12/16 21:21	B6K1005	LP
Toxaphene	< 2.07	2.07		ug/L		12/12/16 20:34	B6K1005	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 127%*	*Limits: 30-109*	*12/12/16 20:34*	*B6K1005*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 76%*	*Limits: 21-124*	*12/12/16 20:34*	*B6K1005*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/29/16 15:44	B6L0053	MNN
Carbofuran	< 2.00	2.00		ug/L		11/29/16 15:44	B6L0053	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.995	0.995		ug/L		11/22/16 21:33	B6K0838	MNN
2,4-D	< 0.995	0.995		ug/L		11/22/16 21:33	B6K0838	MNN
Dinoseb	< 0.995	0.995		ug/L		11/22/16 21:33	B6K0838	MNN
Picloram	< 0.995	0.995		ug/L		11/22/16 21:33	B6K0838	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 83%*	*Limits: 37-152*	*11/22/16 21:33*	*B6K0838*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 15:32	B6L0025	XN
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 15:32	B6L0025	XN
1,1-Dichloroethene	< 0.400	0.400		ug/L		11/25/16 15:32	B6L0025	XN
1,2-Dichloroethane	< 0.400	0.400		ug/L		11/25/16 15:32	B6L0025	XN
1,2-Dichloropropane	< 0.800	0.800		ug/L		11/25/16 15:32	B6L0025	XN
Benzene	< 0.800	0.800		ug/L		11/25/16 15:32	B6L0025	XN
Carbon tetrachloride	< 0.800	0.800		ug/L		11/25/16 15:32	B6L0025	XN
Chlorobenzene	< 0.800	0.800		ug/L		11/25/16 15:32	B6L0025	XN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-1
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:40
Matrix: Groundwater
Lab ID: 16K0303-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units			Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)									
Method: SW8260B / SW5030 (Continued)									
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
Ethylbenzene	< 0.400	0.400		ug/L			11/25/16 15:32	B6L0025	XN
Methyl tert-butyl ether	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
Dichloromethane	< 0.400	0.400		ug/L			11/25/16 15:32	B6L0025	XN
Styrene	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
Tetrachloroethene	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
Toluene	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
Trichloroethene	< 0.800	0.800		ug/L			11/25/16 15:32	B6L0025	XN
Vinyl chloride	< 2.00	2.00		ug/L			11/25/16 15:32	B6L0025	XN
Xylenes, Total	< 4.00	4.00		ug/L			11/25/16 15:32	B6L0025	XN
Surrogate: Dibromofluoromethane				*Recovery: 106%*	*Limits: 80-119*		*11/25/16 15:32*	*B6L0025*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 111%*	*Limits: 81-118*		*11/25/16 15:32*	*B6L0025*	*XN*
Surrogate: Fluorobenzene				*Recovery: 94%*	*Limits: 80-116*		*11/25/16 15:32*	*B6L0025*	*XN*
Surrogate: Toluene-d8				*Recovery: 91%*	*Limits: 89-112*		*11/25/16 15:32*	*B6L0025*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*		*11/25/16 15:32*	*B6L0025*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 118%*	*Limits: 70-120*		*11/25/16 15:32*	*B6L0025*	*XN*
Semivolatile Organic Compounds by GC/ECD									
Method: E504.1									
1,2-Dibromo-3-chloropropane	< 0.189	0.189		ug/L			12/07/16 14:17	B6L0406	LP
Ethylene Dibromide	< 0.189	0.189		ug/L			12/07/16 14:17	B6L0406	LP
Semivolatile Organic Compounds by GC/FID									
Method: E552.1									
Dalapon	< 8.00	8.00		ug/L			12/08/16 21:53	B6L0323	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 131%*	*Limits: 70-130*		*12/08/16 21:53*	*B6L0323*	*LP*
Semivolatile Organic Compounds by GC/MS									
Method: E548.1									
Endothall	< 31.0	31.0		ug/L			12/01/16 13:07	B6K0937	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 123%*	*Limits: 20-200*		*12/01/16 13:07*	*B6K0937*	*HHE*
Method: SW8270D / SW3510									
1,2,4-Trichlorobenzene	< 4.16	4.16		ug/L			11/29/16 19:52	B6K0947	JN1
o-Dichlorobenzene	< 2.08	2.08		ug/L			11/29/16 19:52	B6K0947	JN1
p-Dichlorobenzene	< 2.08	2.08		ug/L			11/29/16 19:52	B6K0947	JN1
Benzo(a)pyrene	< 4.16	4.16		ug/L			11/29/16 19:52	B6K0947	JN1
Di(2-ethylhexyl)phthalate	< 26.0	26.0		ug/L			11/29/16 19:52	B6K0947	JN1
Hexachlorocyclopentadiene	< 10.4	10.4		ug/L			11/29/16 19:52	B6K0947	JN1
Pentachlorophenol	< 52.0	52.0		ug/L			11/29/16 19:52	B6K0947	JN1
Surrogate: 2-Fluorophenol				*Recovery: 37%*	*Limits: 4-108*		*11/29/16 19:52*	*B6K0947*	*JN1*
Surrogate: Phenol-d5				*Recovery: 27%*	*Limits: 1-101*		*11/29/16 19:52*	*B6K0947*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 55%*	*Limits: 23-119*		*11/29/16 19:52*	*B6K0947*	*JN1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-1
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:40
Matrix: Groundwater
Lab ID: 16K0303-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510 (Continued)								
Surrogate: 2-Fluorobiphenyl				*Recovery: 66%*	*Limits: 28-124*	*11/29/16 19:52*	*B6K0947*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 43%*	*Limits: 11-102*	*11/29/16 19:52*	*B6K0947*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-162*	*11/29/16 19:52*	*B6K0947*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.69**	0.16		pCi/L		12/19/16 00:00	16K0303-02	UL
Radium-228	**1.1**	0.39		pCi/L		12/19/16 00:00	16K0303-02	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		11/28/16 00:00	16K0303-02	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-2
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:00
Matrix: Groundwater
Lab ID: 16K0303-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1210**			uS/cm	11/18/16 08:00	B6K0853	CD
Method: SM2550-B							
Temperature	**61.9**			°F	11/18/16 08:00	B6K0853	CD
Method: SM4500-H							
pH	**6.75**	0.05		pH Units	11/18/16 08:00	B6K0853	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Arsenic	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Barium	**69.1**	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Beryllium	< 2.50	2.50		ug/L	11/23/16 14:35	B6K0988	AG
Boron	**4280**	12.5		ug/L	11/23/16 14:35	B6K0988	AG
Cadmium	< 2.50	2.50		ug/L	11/23/16 14:35	B6K0988	AG
Calcium	**185**	2.50		mg/L	11/23/16 14:57	B6K0988	AG
Chromium	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Cobalt	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Copper	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Iron	**1550**	125		ug/L	11/23/16 14:35	B6K0988	AG
Lead	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Manganese	**8170**	500		ug/L	11/23/16 14:57	B6K0988	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/23/16 14:35	B6K0988	AG
Nickel	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Selenium	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Silver	< 2.50	2.50		ug/L	11/23/16 14:35	B6K0988	AG
Thallium	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Zinc	< 25.0	25.0		ug/L	11/23/16 14:35	B6K0988	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/29/16 11:50	B6K1097	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**41.1**	3.00		mg/L	11/18/16 21:05	B6K0824	NB1
Fluoride	< 0.500	0.500		mg/L	11/18/16 21:05	B6K0824	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/18/16 21:05	B6K0824	NB1
Sulfate	**327**	50.0		mg/L	11/19/16 19:20	B6K0858	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**1070**	10.0		mg/L	11/22/16 11:01	B6K0936	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-2
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:00
Matrix: Groundwater
Lab ID: 16K0303-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/30/16 12:01	B6K1151	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/23/16 14:13	B6K0985	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.511	0.511		ug/L		12/12/16 22:07	B6K1005	LP
Atrazine	< 0.511	0.511		ug/L		12/12/16 22:07	B6K1005	LP
Chlordane	< 0.511	0.511		ug/L		12/12/16 21:21	B6K1005	LP
Endrin	< 0.0511	0.0511		ug/L		12/12/16 21:21	B6K1005	LP
Lindane	< 0.0511	0.0511		ug/L		12/12/16 21:21	B6K1005	LP
Heptachlor	< 0.0511	0.0511		ug/L		12/12/16 21:21	B6K1005	LP
Heptachlor epoxide	< 0.0511	0.0511		ug/L		12/12/16 21:21	B6K1005	LP
Methoxychlor	< 0.0511	0.0511		ug/L		12/12/16 21:21	B6K1005	LP
Simazine	< 0.511	0.511		ug/L		12/12/16 22:07	B6K1005	LP
Toxaphene	< 2.05	2.05		ug/L		12/12/16 21:21	B6K1005	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 123%*	*Limits: 30-109*	*12/12/16 21:21*	*B6K1005*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 71%*	*Limits: 21-124*	*12/12/16 21:21*	*B6K1005*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/30/16 11:54	B6L0171	MNN
Carbofuran	< 2.00	2.00		ug/L		11/30/16 11:54	B6L0171	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.988	0.988		ug/L		11/22/16 22:15	B6K0838	MNN
2,4-D	< 0.988	0.988		ug/L		11/22/16 22:15	B6K0838	MNN
Dinoseb	< 0.988	0.988		ug/L		11/22/16 22:15	B6K0838	MNN
Picloram	< 0.988	0.988		ug/L		11/22/16 22:15	B6K0838	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 84%*	*Limits: 37-152*	*11/22/16 22:15*	*B6K0838*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
1,1-Dichloroethene	< 0.400	0.400		ug/L		11/25/16 16:02	B6L0025	XN
1,2-Dichloroethane	< 0.400	0.400		ug/L		11/25/16 16:02	B6L0025	XN
1,2-Dichloropropane	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Benzene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Carbon tetrachloride	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Chlorobenzene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-2
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:00
Matrix: Groundwater
Lab ID: 16K0303-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5030 (Continued)								
Ethylbenzene	< 0.400	0.400		ug/L		11/25/16 16:02	B6L0025	XN
Methyl tert-butyl ether	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Dichloromethane	< 0.400	0.400		ug/L		11/25/16 16:02	B6L0025	XN
Styrene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Tetrachloroethene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Toluene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Trichloroethene	< 0.800	0.800		ug/L		11/25/16 16:02	B6L0025	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/16 16:02	B6L0025	XN
Xylenes, Total	< 4.00	4.00		ug/L		11/25/16 16:02	B6L0025	XN
Surrogate: Dibromofluoromethane				*Recovery: 104%*	*Limits: 80-119*	*11/25/16 16:02*	*B6L0025*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 114%*	*Limits: 81-118*	*11/25/16 16:02*	*B6L0025*	*XN*
Surrogate: Fluorobenzene				*Recovery: 95%*	*Limits: 80-116*	*11/25/16 16:02*	*B6L0025*	*XN*
Surrogate: Toluene-d8				*Recovery: 90%*	*Limits: 89-112*	*11/25/16 16:02*	*B6L0025*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 97%*	*Limits: 85-114*	*11/25/16 16:02*	*B6L0025*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 117%*	*Limits: 70-120*	*11/25/16 16:02*	*B6L0025*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.194	0.194		ug/L		12/08/16 13:26	B6L0440	LP
Ethylene Dibromide	< 0.194	0.194		ug/L		12/08/16 13:26	B6L0440	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		12/08/16 22:31	B6L0323	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 120%*	*Limits: 70-130*	*12/08/16 22:31*	*B6L0323*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/01/16 13:37	B6K0937	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 99%*	*Limits: 20-200*	*12/01/16 13:37*	*B6K0937*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.15	4.15		ug/L		11/29/16 20:25	B6K0947	JN1
o-Dichlorobenzene	< 2.07	2.07		ug/L		11/29/16 20:25	B6K0947	JN1
p-Dichlorobenzene	< 2.07	2.07		ug/L		11/29/16 20:25	B6K0947	JN1
Benzo(a)pyrene	< 4.15	4.15		ug/L		11/29/16 20:25	B6K0947	JN1
Di(2-ethylhexyl)phthalate	< 25.9	25.9		ug/L		11/29/16 20:25	B6K0947	JN1
Hexachlorocyclopentadiene	< 10.4	10.4		ug/L		11/29/16 20:25	B6K0947	JN1
Pentachlorophenol	< 51.8	51.8		ug/L		11/29/16 20:25	B6K0947	JN1
Surrogate: 2-Fluorophenol				*Recovery: 14%*	*Limits: 4-108*	*11/29/16 20:25*	*B6K0947*	*JN1*
Surrogate: Phenol-d5				*Recovery: 11%*	*Limits: 1-101*	*11/29/16 20:25*	*B6K0947*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*11/29/16 20:25*	*B6K0947*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 61%*	*Limits: 28-124*	*11/29/16 20:25*	*B6K0947*	*JN1*

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-2
Report Date: 12/30/2016
Collection Date: 11/18/2016 08:00
Matrix: Groundwater
Lab ID: 16K0303-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510 (Continued)								
Surrogate: 2,4,6-Tribromophenol				*Recovery: 35%*	*Limits: 11-102*	*11/29/16 20:25*	*B6K0947*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 107%*	*Limits: 79-162*	*11/29/16 20:25*	*B6K0947*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.19**	0.12		pCi/L		12/19/16 00:00	16K0303-03	UL
Radium-228	**1**	0.37		pCi/L		12/19/16 00:00	16K0303-03	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		11/28/16 00:00	16K0303-03	TEST

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 07:20
Matrix: Groundwater
Lab ID: 16K0303-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1210**			uS/cm	11/18/16 07:20	B6K0853	CD
Method: SM2550-B							
Temperature	**62.2**			°F	11/18/16 07:20	B6K0853	CD
Method: SM4500-H							
pH	**6.80**	0.05		pH Units	11/18/16 07:20	B6K0853	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Arsenic	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Barium	**100**	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Beryllium	< 2.50	2.50		ug/L	11/23/16 14:37	B6K0988	AG
Boron	**18600**	250		ug/L	11/23/16 14:59	B6K0988	AG
Cadmium	< 2.50	2.50		ug/L	11/23/16 14:37	B6K0988	AG
Calcium	**154**	2.50		mg/L	11/23/16 14:59	B6K0988	AG
Chromium	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Cobalt	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Copper	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Iron	**13000**	125		ug/L	11/23/16 14:37	B6K0988	AG
Lead	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Manganese	**7830**	500		ug/L	11/23/16 14:59	B6K0988	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/23/16 14:37	B6K0988	AG
Nickel	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Selenium	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Silver	< 2.50	2.50		ug/L	11/23/16 14:37	B6K0988	AG
Thallium	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Zinc	< 25.0	25.0		ug/L	11/23/16 14:37	B6K0988	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/29/16 11:52	B6K1097	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**38.9**	3.00		mg/L	11/18/16 21:33	B6K0824	NB1
Fluoride	< 0.500	0.500		mg/L	11/18/16 21:33	B6K0824	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/18/16 21:33	B6K0824	NB1
Sulfate	**339**	50.0		mg/L	11/19/16 19:49	B6K0858	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**940**	10.0		mg/L	11/22/16 11:01	B6K0936	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 07:20
Matrix: Groundwater
Lab ID: 16K0303-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/30/16 12:08	B6K1151	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/23/16 14:13	B6K0985	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.521	0.521		ug/L		12/12/16 22:54	B6K1005	LP
Atrazine	< 0.521	0.521		ug/L		12/12/16 22:54	B6K1005	LP
Chlordane	< 0.521	0.521		ug/L		12/12/16 22:07	B6K1005	LP
Endrin	< 0.0521	0.0521		ug/L		12/12/16 22:07	B6K1005	LP
Lindane	< 0.0521	0.0521		ug/L		12/12/16 22:07	B6K1005	LP
Heptachlor	< 0.0521	0.0521		ug/L		12/12/16 22:07	B6K1005	LP
Heptachlor epoxide	< 0.0521	0.0521		ug/L		12/12/16 22:07	B6K1005	LP
Methoxychlor	< 0.0521	0.0521		ug/L		12/12/16 22:07	B6K1005	LP
Simazine	< 0.521	0.521		ug/L		12/12/16 22:54	B6K1005	LP
Toxaphene	< 2.08	2.08		ug/L		12/12/16 22:07	B6K1005	LP
Surrogate: Decachlorobiphenyl				*Recovery: 107%*	*Limits: 30-109*	*12/12/16 22:07*	*B6K1005*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 67%*	*Limits: 21-124*	*12/12/16 22:07*	*B6K1005*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/30/16 12:30	B6L0171	MNN
Carbofuran	< 2.00	2.00		ug/L		11/30/16 12:30	B6L0171	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.995	0.995		ug/L		11/22/16 22:56	B6K0838	MNN
2,4-D	< 0.995	0.995		ug/L		11/22/16 22:56	B6K0838	MNN
Dinoseb	< 0.995	0.995		ug/L		11/22/16 22:56	B6K0838	MNN
Picloram	< 0.995	0.995		ug/L		11/22/16 22:56	B6K0838	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 86%*	*Limits: 37-152*	*11/22/16 22:56*	*B6K0838*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
1,1-Dichloroethene	< 0.400	0.400		ug/L		11/25/16 16:32	B6L0025	XN
1,2-Dichloroethane	< 0.400	0.400		ug/L		11/25/16 16:32	B6L0025	XN
1,2-Dichloropropane	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Benzene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Carbon tetrachloride	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Chlorobenzene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 07:20
Matrix: Groundwater
Lab ID: 16K0303-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5030 (Continued)								
Ethylbenzene	< 0.400	0.400		ug/L		11/25/16 16:32	B6L0025	XN
Methyl tert-butyl ether	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Dichloromethane	< 0.400	0.400		ug/L		11/25/16 16:32	B6L0025	XN
Styrene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Tetrachloroethene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Toluene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Trichloroethene	< 0.800	0.800		ug/L		11/25/16 16:32	B6L0025	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/16 16:32	B6L0025	XN
Xylenes, Total	< 4.00	4.00		ug/L		11/25/16 16:32	B6L0025	XN
Surrogate: Dibromofluoromethane				*Recovery: 105%*	*Limits: 80-119*	*11/25/16 16:32*	*B6L0025*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 115%*	*Limits: 81-118*	*11/25/16 16:32*	*B6L0025*	*XN*
Surrogate: Fluorobenzene				*Recovery: 95%*	*Limits: 80-116*	*11/25/16 16:32*	*B6L0025*	*XN*
Surrogate: Toluene-d8				*Recovery: 91%*	*Limits: 89-112*	*11/25/16 16:32*	*B6L0025*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 85-114*	*11/25/16 16:32*	*B6L0025*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 119%*	*Limits: 70-120*	*11/25/16 16:32*	*B6L0025*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.194	0.194		ug/L		12/07/16 15:19	B6L0406	LP
Ethylene Dibromide	< 0.194	0.194		ug/L		12/07/16 15:19	B6L0406	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		12/08/16 23:09	B6L0323	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 114%*	*Limits: 70-130*	*12/08/16 23:09*	*B6L0323*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/01/16 14:06	B6K0937	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 86%*	*Limits: 20-200*	*12/01/16 14:06*	*B6K0937*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.16	4.16		ug/L		11/23/16 19:19	B6K0947	JN1
o-Dichlorobenzene	< 2.08	2.08		ug/L		11/23/16 19:19	B6K0947	JN1
p-Dichlorobenzene	< 2.08	2.08		ug/L		11/23/16 19:19	B6K0947	JN1
Benzo(a)pyrene	< 4.16	4.16		ug/L		11/23/16 19:19	B6K0947	JN1
Di(2-ethylhexyl)phthalate	< 26.0	26.0		ug/L		11/23/16 19:19	B6K0947	JN1
Hexachlorocyclopentadiene	< 10.4	10.4		ug/L		11/23/16 19:19	B6K0947	JN1
Pentachlorophenol	< 52.0	52.0		ug/L		11/23/16 19:19	B6K0947	JN1
Surrogate: 2-Fluorophenol				*Recovery: 19%*	*Limits: 4-108*	*11/23/16 19:19*	*B6K0947*	*JN1*
Surrogate: Phenol-d5				*Recovery: 14%*	*Limits: 1-101*	*11/23/16 19:19*	*B6K0947*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 81%*	*Limits: 23-119*	*11/23/16 19:19*	*B6K0947*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 73%*	*Limits: 28-124*	*11/23/16 19:19*	*B6K0947*	*JN1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-3
Report Date: 12/30/2016
Collection Date: 11/18/2016 07:20
Matrix: Groundwater
Lab ID: 16K0303-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510 (Continued)								
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 11-102*	*11/23/16 19:19*	*B6K0947*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-162*	*11/23/16 19:19*	*B6K0947*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.24**	0.14		pCi/L		12/19/16 00:00	16K0303-04	UL
Radium-228	**1.1**	0.4		pCi/L		12/19/16 00:00	16K0303-04	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		11/28/16 00:00	16K0303-04	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-4
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:10
Matrix: Groundwater
Lab ID: 16K0303-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**873**			uS/cm	11/18/16 10:10	B6K0853	CD
Method: SM2550-B							
Temperature	**61.0**			°F	11/18/16 10:10	B6K0853	CD
Method: SM4500-H							
pH	**7.01**	0.05		pH Units	11/18/16 10:10	B6K0853	CD
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Arsenic	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Barium	**357**	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Beryllium	< 2.50	2.50		ug/L	11/23/16 14:39	B6K0988	AG
Boron	**136**	12.5		ug/L	11/23/16 14:39	B6K0988	AG
Cadmium	< 2.50	2.50		ug/L	11/23/16 14:39	B6K0988	AG
Calcium	**117**	2.50		mg/L	11/23/16 15:00	B6K0988	AG
Chromium	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Cobalt	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Copper	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Iron	**11600**	125		ug/L	11/23/16 14:39	B6K0988	AG
Lead	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Manganese	**142**	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/23/16 14:39	B6K0988	AG
Nickel	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Selenium	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Silver	< 2.50	2.50		ug/L	11/23/16 14:39	B6K0988	AG
Thallium	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Zinc	< 25.0	25.0		ug/L	11/23/16 14:39	B6K0988	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/29/16 11:54	B6K1097	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**9.80**	3.00		mg/L	11/19/16 09:36	B6K0855	NB1
Fluoride	< 0.500	0.500		mg/L	11/19/16 09:36	B6K0855	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/19/16 09:36	B6K0855	NB1
Sulfate	< 5.00	5.00		mg/L	11/19/16 09:36	B6K0855	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**558**	10.0		mg/L	11/22/16 11:01	B6K0936	CP1

Response to 1st RTP
CWLP - 03004

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-4
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:10
Matrix: Groundwater
Lab ID: 16K0303-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/30/16 12:08	B6K1151	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/23/16 14:13	B6K0985	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.521	0.521		ug/L		12/12/16 19:01	B6K1005	LP
Atrazine	< 0.521	0.521		ug/L		12/12/16 19:01	B6K1005	LP
Chlordane	< 0.521	0.521		ug/L		12/12/16 22:54	B6K1005	LP
Endrin	< 0.0521	0.0521		ug/L		12/12/16 22:54	B6K1005	LP
Lindane	< 0.0521	0.0521		ug/L		12/12/16 22:54	B6K1005	LP
Heptachlor	< 0.0521	0.0521		ug/L		12/12/16 22:54	B6K1005	LP
Heptachlor epoxide	< 0.0521	0.0521		ug/L		12/12/16 22:54	B6K1005	LP
Methoxychlor	< 0.0521	0.0521		ug/L		12/12/16 22:54	B6K1005	LP
Simazine	< 0.521	0.521		ug/L		12/12/16 19:01	B6K1005	LP
Toxaphene	< 2.08	2.08		ug/L		12/12/16 22:54	B6K1005	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 118%*	*Limits: 30-109*	*12/12/16 22:54*	*B6K1005*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 80%*	*Limits: 21-124*	*12/12/16 22:54*	*B6K1005*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/30/16 13:06	B6L0171	MNN
Carbofuran	< 2.00	2.00		ug/L		11/30/16 13:06	B6L0171	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.991	0.991		ug/L		11/22/16 23:37	B6K0838	MNN
2,4-D	< 0.991	0.991		ug/L		11/22/16 23:37	B6K0838	MNN
Dinoseb	< 0.991	0.991		ug/L		11/22/16 23:37	B6K0838	MNN
Picloram	< 0.991	0.991		ug/L		11/22/16 23:37	B6K0838	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 83%*	*Limits: 37-152*	*11/22/16 23:37*	*B6K0838*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
1,1-Dichloroethene	< 0.400	0.400		ug/L		11/25/16 17:02	B6L0025	XN
1,2-Dichloroethane	< 0.400	0.400		ug/L		11/25/16 17:02	B6L0025	XN
1,2-Dichloropropane	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Benzene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Carbon tetrachloride	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Chlorobenzene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-4
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:10
Matrix: Groundwater
Lab ID: 16K0303-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5030 (Continued)								
Ethylbenzene	< 0.400	0.400		ug/L		11/25/16 17:02	B6L0025	XN
Methyl tert-butyl ether	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Dichloromethane	< 0.400	0.400		ug/L		11/25/16 17:02	B6L0025	XN
Styrene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Tetrachloroethene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Toluene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Trichloroethene	< 0.800	0.800		ug/L		11/25/16 17:02	B6L0025	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/16 17:02	B6L0025	XN
Xylenes, Total	< 4.00	4.00		ug/L		11/25/16 17:02	B6L0025	XN
Surrogate: Dibromofluoromethane				*Recovery: 118%*	*Limits: 80-119*	*11/25/16 17:02*	*B6L0025*	*XN*
Surrogate: 1,2-Dichloroethane-d4			*S*	*Recovery: 122%*	*Limits: 81-118*	*11/25/16 17:02*	*B6L0025*	*XN*
Surrogate: Fluorobenzene				*Recovery: 95%*	*Limits: 80-116*	*11/25/16 17:02*	*B6L0025*	*XN*
Surrogate: Toluene-d8				*Recovery: 90%*	*Limits: 89-112*	*11/25/16 17:02*	*B6L0025*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 97%*	*Limits: 85-114*	*11/25/16 17:02*	*B6L0025*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 120%*	*Limits: 70-120*	*11/25/16 17:02*	*B6L0025*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		12/07/16 16:54	B6L0406	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		12/07/16 16:54	B6L0406	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		12/08/16 23:46	B6L0323	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 118%*	*Limits: 70-130*	*12/08/16 23:46*	*B6L0323*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/01/16 15:06	B6K0937	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 112%*	*Limits: 20-200*	*12/01/16 15:06*	*B6K0937*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.16	4.16		ug/L		11/23/16 19:52	B6K0947	JN1
o-Dichlorobenzene	< 2.08	2.08		ug/L		11/23/16 19:52	B6K0947	JN1
p-Dichlorobenzene	< 2.08	2.08		ug/L		11/23/16 19:52	B6K0947	JN1
Benzo(a)pyrene	< 4.16	4.16		ug/L		11/23/16 19:52	B6K0947	JN1
Di(2-ethylhexyl)phthalate	< 26.0	26.0		ug/L		11/23/16 19:52	B6K0947	JN1
Hexachlorocyclopentadiene	< 10.4	10.4		ug/L		11/23/16 19:52	B6K0947	JN1
Pentachlorophenol	< 52.0	52.0		ug/L		11/23/16 19:52	B6K0947	JN1
Surrogate: 2-Fluorophenol				*Recovery: 48%*	*Limits: 4-108*	*11/23/16 19:52*	*B6K0947*	*JN1*
Surrogate: Phenol-d5				*Recovery: 34%*	*Limits: 1-101*	*11/23/16 19:52*	*B6K0947*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 79%*	*Limits: 23-119*	*11/23/16 19:52*	*B6K0947*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 73%*	*Limits: 28-124*	*11/23/16 19:52*	*B6K0947*	*JN1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-4
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:10
Matrix: Groundwater
Lab ID: 16K0303-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510 (Continued)								
Surrogate: 2,4,6-Tribromophenol				*Recovery: 86%*	*Limits: 11-102*	*11/23/16 19:52*	*B6K0947*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 102%*	*Limits: 79-162*	*11/23/16 19:52*	*B6K0947*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.91**	0.2		pCi/L		12/19/16 00:00	16K0303-05	UL
Radium-228	**1.4**	0.43		pCi/L		12/19/16 00:00	16K0303-05	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		11/28/16 00:00	16K0303-05	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-5
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:00
Matrix: Groundwater
Lab ID: 16K0303-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**728**			uS/cm	11/18/16 10:00	B6K0853	JJ1
Method: SM2550-B							
Temperature	**57.5**			°F	11/18/16 10:00	B6K0853	JJ1
Method: SM4500-H							
pH	**7.62**	0.05		pH Units	11/18/16 10:00	B6K0853	JJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Arsenic	< 25.0	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Barium	**201**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Beryllium	< 2.50	2.50		ug/L	11/23/16 14:41	B6K0988	AG
Boron	**73.3**	12.5		ug/L	11/23/16 14:41	B6K0988	AG
Cadmium	< 2.50	2.50		ug/L	11/23/16 14:41	B6K0988	AG
Calcium	**201**	2.50		mg/L	11/23/16 14:44	B6K0988	AG
Chromium	**43.2**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Cobalt	< 25.0	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Copper	**38.0**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Iron	**59400**	2500		ug/L	11/23/16 14:44	B6K0988	AG
Lead	**25.4**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Manganese	**1360**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/23/16 14:41	B6K0988	AG
Nickel	**59.5**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Selenium	< 25.0	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Silver	< 2.50	2.50		ug/L	11/23/16 14:41	B6K0988	AG
Thallium	< 25.0	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Zinc	**148**	25.0		ug/L	11/23/16 14:41	B6K0988	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/29/16 12:40	B6K1097	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	11/19/16 10:04	B6K0855	NB1
Fluoride	< 0.500	0.500		mg/L	11/19/16 10:04	B6K0855	NB1
Nitrogen, Nitrate	**1.45**	0.500		mg/L	11/19/16 10:04	B6K0855	NB1
Sulfate	**52.5**	5.00		mg/L	11/19/16 10:04	B6K0855	NB1
Wet Chemistry							
Method: SM2540C							
Total Dissolved Solids (Residue, Filterable)	**344**	10.0		mg/L	11/22/16 11:01	B6K0936	CP1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-5
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:00
Matrix: Groundwater
Lab ID: 16K0303-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry (Continued)								
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/30/16 12:08	B6K1151	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/23/16 14:13	B6K0985	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.508	0.508		ug/L		12/13/16 13:31	B6K1005	LP
Atrazine	< 0.508	0.508		ug/L		12/13/16 13:31	B6K1005	LP
Chlordane	< 0.508	0.508		ug/L		12/13/16 12:45	B6K1005	LP
Endrin	< 0.0508	0.0508		ug/L		12/13/16 12:45	B6K1005	LP
Lindane	< 0.0508	0.0508		ug/L		12/13/16 12:45	B6K1005	LP
Heptachlor	< 0.0508	0.0508		ug/L		12/13/16 12:45	B6K1005	LP
Heptachlor epoxide	< 0.0508	0.0508		ug/L		12/13/16 12:45	B6K1005	LP
Methoxychlor	< 0.0508	0.0508		ug/L		12/13/16 12:45	B6K1005	LP
Simazine	< 0.508	0.508		ug/L		12/13/16 13:31	B6K1005	LP
Toxaphene	< 2.03	2.03		ug/L		12/13/16 12:45	B6K1005	LP
Surrogate: Decachlorobiphenyl				*Recovery: 79%*	*Limits: 30-109*	*12/13/16 12:45*	*B6K1005*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 75%*	*Limits: 21-124*	*12/13/16 12:45*	*B6K1005*	*LP*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/30/16 13:42	B6L0171	MNN
Carbofuran	< 2.00	2.00		ug/L		11/30/16 13:42	B6L0171	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.00	1.00		ug/L		11/23/16 00:18	B6K0838	MNN
2,4-D	< 1.00	1.00		ug/L		11/23/16 00:18	B6K0838	MNN
Dinoseb	< 1.00	1.00		ug/L		11/23/16 00:18	B6K0838	MNN
Picloram	< 1.00	1.00		ug/L		11/23/16 00:18	B6K0838	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 89%*	*Limits: 37-152*	*11/23/16 00:18*	*B6K0838*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
1,1-Dichloroethene	< 0.400	0.400		ug/L		11/25/16 17:32	B6L0025	XN
1,2-Dichloroethane	< 0.400	0.400		ug/L		11/25/16 17:32	B6L0025	XN
1,2-Dichloropropane	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Benzene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Carbon tetrachloride	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Chlorobenzene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-5
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:00
Matrix: Groundwater
Lab ID: 16K0303-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS (Continued)								
Method: SW8260B / SW5030 (Continued)								
Ethylbenzene	< 0.400	0.400		ug/L		11/25/16 17:32	B6L0025	XN
Methyl tert-butyl ether	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Dichloromethane	< 0.400	0.400		ug/L		11/25/16 17:32	B6L0025	XN
Styrene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Tetrachloroethene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Toluene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Trichloroethene	< 0.800	0.800		ug/L		11/25/16 17:32	B6L0025	XN
Vinyl chloride	< 2.00	2.00		ug/L		11/25/16 17:32	B6L0025	XN
Xylenes, Total	< 4.00	4.00		ug/L		11/25/16 17:32	B6L0025	XN
Surrogate: Dibromofluoromethane				*Recovery: 113%*	*Limits: 80-119*	*11/25/16 17:32*	*B6L0025*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 113%*	*Limits: 81-118*	*11/25/16 17:32*	*B6L0025*	*XN*
Surrogate: Fluorobenzene				*Recovery: 94%*	*Limits: 80-116*	*11/25/16 17:32*	*B6L0025*	*XN*
Surrogate: Toluene-d8				*Recovery: 92%*	*Limits: 89-112*	*11/25/16 17:32*	*B6L0025*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*	*11/25/16 17:32*	*B6L0025*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4			*S*	*Recovery: 121%*	*Limits: 70-120*	*11/25/16 17:32*	*B6L0025*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.194	0.194		ug/L		12/07/16 15:51	B6L0406	LP
Ethylene Dibromide	< 0.194	0.194		ug/L		12/07/16 15:51	B6L0406	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		12/08/16 14:17	B6L0323	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 117%*	*Limits: 70-130*	*12/08/16 14:17*	*B6L0323*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		12/01/16 15:37	B6K0937	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 151%*	*Limits: 20-200*	*12/01/16 15:37*	*B6K0937*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.09	4.09		ug/L		11/23/16 20:25	B6K0947	JN1
o-Dichlorobenzene	< 2.05	2.05		ug/L		11/23/16 20:25	B6K0947	JN1
p-Dichlorobenzene	< 2.05	2.05		ug/L		11/23/16 20:25	B6K0947	JN1
Benzo(a)pyrene	< 4.09	4.09		ug/L		11/23/16 20:25	B6K0947	JN1
Di(2-ethylhexyl)phthalate	< 25.6	25.6		ug/L		11/23/16 20:25	B6K0947	JN1
Hexachlorocyclopentadiene	< 10.2	10.2		ug/L		11/23/16 20:25	B6K0947	JN1
Pentachlorophenol	< 51.2	51.2		ug/L		11/23/16 20:25	B6K0947	JN1
Surrogate: 2-Fluorophenol				*Recovery: 54%*	*Limits: 4-108*	*11/23/16 20:25*	*B6K0947*	*JN1*
Surrogate: Phenol-d5				*Recovery: 38%*	*Limits: 1-101*	*11/23/16 20:25*	*B6K0947*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 85%*	*Limits: 23-119*	*11/23/16 20:25*	*B6K0947*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 77%*	*Limits: 28-124*	*11/23/16 20:25*	*B6K0947*	*JN1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q 2016
Work Order: 16K0303

Client Sample ID: AP-5
Report Date: 12/30/2016
Collection Date: 11/18/2016 10:00
Matrix: Groundwater
Lab ID: 16K0303-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS (Continued)								
Method: SW8270D / SW3510 (Continued)								
Surrogate: 2,4,6-Tribromophenol				*Recovery: 84%*	*Limits: 11-102*	*11/23/16 20:25*	*B6K0947*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 102%*	*Limits: 79-162*	*11/23/16 20:25*	*B6K0947*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.34**	0.16		pCi/L		12/19/16 00:00	16K0303-06	UL
Radium-228	**2.2**	0.41		pCi/L		12/19/16 00:00	16K0303-06	UL
Test America, Irvine, CA, Subcontract								
Subcontracted Analyses								
Method: SW 846 6010D								
Lithium	< 0.05	0.05		mg/L		11/28/16 00:00	16K0303-06	TEST

CHAIN OF CUSTODY

16K0303

Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Lab Work Order Number 16K0303

Client Name	Project Name
City, Water, Light & Power	
Client Contact	**Project Number**
Sue Corcoran	
Address	**Project Description**
201 East Lake Shore Drive	
City	**PO Number**
Springfield	
State/Zip	**Shipped By**
IL, 62707-	
Phone / **Fax**	**Tracking Number**
(217) 757-8610 / (217) 757-8615	
Sampler A Safran	**Sampler Signature**

Requested Analyses

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	AG::1	P::3	V::5	P::4	AG::2	TEMP	Sample Comments
AW-3	11/18/16	07:10	GRAB	GW	21	1	1	2	8	1	3	1	1	56.7	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U
AP-1			GRAB	GW	21	1	1	2	8	1	3	1	1		
AP-2			GRAB	GW	21	1	1	2	8	1	3	1	1		
AP-3			GRAB	GW	21	1	1	2	8	1	3	1	1		
AP-4			GRAB	GW	21	1	1	2	8	1	3	1	1		
AP-5			GRAB	GW	21	1	1	2	8	1	3	1	1		

Relinquished By: A Safran	Date/Time: 11/18/16 / 09:30	Received By: [signature]	Date/Time: 11/18/16 / 09:30	
Relinquished By: [signature]	Date/Time: 11/18/16 / 09:30	Received By:	Date/Time:	Comments:
Relinquished By:	Date/Time:	Received By: [signature]	Date/Time: 11/18/16 13:54	
Cooler Numbers and Temperatures: 3.2				

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,2=Sulfuric acid (H_2SO_4) pH <2, Store at 4 C,3=Nitric acid (HNO_3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate ($Na_2S_2O_3$), Store at 4 C

Cont. Codes

PH 7 = 7.00 @ 06:45

Table of Contents

CHAIN OF CUSTODY

16K0303

Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Lab Work Order Number 16K0303

Client Name: City, Water, Light & Power		Project Name	
Client Contact: Sue Corcoran		Project Number	
Address: 201 East Lake Shore Drive		Project Description	
City: Springfield		PO Number	
State/Zip: IL, 62707-		Shipped By	
Phone: (217) 757-8610 / (217) 757-8615	Fax	Tracking Number	
Sampler: C. Duncan		Sampler Signature: Curtis Duncan	

Requested Analyses: 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH; 2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4; 504_DBCP_EDB; 548_ENDOTHALL::552_DALAPON::60 81B_PEST::8082A_PCB::8270D_SVOC 8321_HERB; 6020_Ag 6020_As 6020_B 6020_Ba 6020_Be 6020_Ca 6020_Cd 6020_Co 6020_Cr 6020_Cu 6020_Fe 6020_Mn 6020_Mo 6020_Ni 6020_Pb 6020_Sb 6020_Se 6020_Tl 6020_Zn 7470_MERCURY; 8260B_VOC; 9014_CYANIDE; 9065_PHENOL; Temprature of sample at collection

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. | Standard (days) | Expedited (days) | Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	AG::1	P::3	V::5	P::4	AG::2	TEMP		Sample Comments
AW-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-1	11/18/16	0840	GRAB	GW	21	1	1	2	8	1	3	1	1	62.6		O2A,BC,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U
AP-2	11/18/16	0825	GRAB	GW	21	1	1	2	8	1	3	1	1	61.9		O3A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U
AP-3	11/18/16	0720	GRAB	GW	21	1	1	2	8	1	3	1	1	62.2		O4A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U
AP-4			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-5			GRAB	GW	21	1	1	2	8	1	3	1	1			

Relinquished By: Curtis Duncan	Date/Time: 11/18/16 0930	Received By:	Date/Time: 11/18/16 0930	
Relinquished By:	Date/Time: 11/18/16	Received By:	Date/Time:	Comments
Relinquished By:	Date/Time:	Received By:	Date/Time: 11/18/16 13:54	
Cooler Numbers and Temperatures: 3.2				

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

PH 7=7.00@0700

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CHAIN OF CUSTODY

16K0303

Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Lab Work Order Number 16K0303

Client Name: City, Water, Light & Power		Project Name	
Client Contact: Sue Corcoran		Project Number	
Address: 201 East Lake Shore Drive		Project Description	
City: Springfield		PO Number	
State/Zip: IL, 62707-		Shipped By	
Phone: (217) 757-8610 / (217) 757-8615	Fax:	Tracking Number	
Sampler: C. Duncan		Sampler Signature: Curtis Duncan	

Requested Analyses

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH	2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4	504_DBCP_EDB	548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC 8321_HERB	6020_Ag 6020_As 6020_B 6020_Ba 6020_Be 6020_Ca 6020_Cd 6020_Co 6020_Cr 6020_Cu 6020_Fe 6020_Mn 6020_Mo 6020_Ni 6020_Pb 6020_Sb 6020_Se 6020_Tl 6020_Zn 7470_MERCURY	8260B_VOC	9014_CYANIDE	9065_PHENOL	Temprature of sample at collection		Sample Comments
						Preservation Code: NA::1	P::1	V::9	AG::1	P::3	V::5	P::4	AG::2	TEMP		
AW-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-1			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-2			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-4	11/18/16	1010	GRAB	GW	21	1	1	2	8	1	3	1	1	4.0		A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V
AP-5			GRAB	GW	21	1	1	2	8	1	3	1	1			

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Relinquished By: Curtis Duncan	Date/Time: 11/18/16 1145	Received By: Sally Jackson	Date/Time: 11/18/16 1145		
Relinquished By: Sally Jackson	Date/Time: 11/18/16 1515	Received By:	Date/Time:	Comments	
Relinquished By:	Date/Time:	Received By:	Date/Time: 11/18/16 13:54		
Cooler Numbers and Temperatures					

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

PH 7=7.00@ 0700

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CHAIN OF CUSTODY

16K0303

Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

Lab Work Order Number 16K0303

Client Name	Project Name
City, Water, Light & Power	
Client Contact	**Project Number**
Sue Corcoran	
Address	**Project Description**
201 East Lake Shore Drive	
City	**PO Number**
Springfield	
State/Zip	**Shipped By**
IL, 62707-	
Phone / **Fax**	**Tracking Number**
(217) 757-8610 / (217) 757-8615	
Sampler J. Jackson	**Sampler Signature** Jaby Jackson

Requested Analyses

2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH	2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4	504_DBCP_EDB	548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB	6020_Ag 6020_As 6020_B 6020_Ba 6020_Be 6020_Ca 6020_Cd 6020_Co 6020_Cr 6020_Cu 6020_Fe 6020_Mn 6020_Mo 6020_Ni 6020_Pb 6020_Sb 6020_Se 6020_Tl 6020_Zn 7470_MERCURY	8260B_VOC	9014_CYANIDE	9065_PHENOL	Temprature of sample at collection	

Requested Turn Around

Rush requests subject to additional charge.
Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	AG::1	P::3	V::5	P::4	AG::2	TEMP		Sample Comments
AW-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-1			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-2			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-4			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-5	11/18/16	1600	GRAB	GW	21	1	1	2	8	1	3	1	1	57.5		A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U

Relinquished By	Date/Time	Received By	Date/Time	
Jaby Jackson	11/18/16 1515			
Relinquished By	**Date/Time**	**Received By**	**Date/Time**	**Comments**
Relinquished By	**Date/Time**	**Received By**	**Date/Time**	
		SFC	11/18/16 1354	
Cooler Numbers and Temperatures				

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,2=Sulfuric acid (H_2SO_4) pH <2, Store at 4 C,3=Nitric acid (HNO_3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate ($Na_2S_2O_3$), Store at 4 C

Cont. Codes

pH=7.00@ 0625 on 11/18/16

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

March 22, 2017

Work Order: 17B0310

RE: List G20
1Q 2017

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 3/17/2017 1:51:47PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674

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Response to 1st RTP
CWLP - 03017

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Environmental Monitoring and Technologies, Inc.

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Sample Summary

Sample ID	Sub Lab	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3		17B0310-01	Groundwater	02/16/17 10:05	02/16/17 14:20
AP-1		17B0310-02	Groundwater	02/16/17 09:15	02/16/17 14:20
AP-2		17B0310-03	Groundwater	02/16/17 08:35	02/16/17 14:20
AP-3		17B0310-04	Groundwater	02/16/17 08:00	02/16/17 14:20
AP-4		17B0310-05	Groundwater	02/16/17 07:25	02/16/17 14:20
AP-5		17B0310-06	Groundwater	02/16/17 10:05	02/16/17 14:20
AW-3	Eurofins (Underwriters Labor	17B0310-01	Groundwater	02/16/17 10:05	02/16/17 14:20
AP-1	Eurofins (Underwriters Labor	17B0310-02	Groundwater	02/16/17 09:15	02/16/17 14:20
AP-2	Eurofins (Underwriters Labor	17B0310-03	Groundwater	02/16/17 08:35	02/16/17 14:20
AP-3	Eurofins (Underwriters Labor	17B0310-04	Groundwater	02/16/17 08:00	02/16/17 14:20
AP-4	Eurofins (Underwriters Labor	17B0310-05	Groundwater	02/16/17 07:25	02/16/17 14:20
AP-5	Eurofins (Underwriters Labor	17B0310-06	Groundwater	02/16/17 10:05	02/16/17 14:20

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Environmental Monitoring and Technologies, Inc.

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Case Narrative

Client: City, Water, Light & Power **Date:** 03/22/2017
Project: List G20
1Q 2017
Work Order: 17B0310

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 17B0310
The samples were received on02/16/17 14:20. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	3.9

degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed. Samples 17B0310-01, 02, 03, and 06 were decanted prior to the Radium 226 and 228 analysis due to the sediment in the samples that would interfere with the test.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles

Method: 552_DALAPON, 17B0310-01: The recovery for the surrogate was above the laboratory control limit.

Method: 552_DALAPON, B7B0931-BS1: The recovery for the surrogate LCS was above the laboratory control limit.

Method: 8081B_PEST, B7B0741-BS1/BSD1: RPDs for some spike compounds were outside of the limits. The compounds in question were not detected in the associated sample.

GC/MS Semivolatiles

Method: 8270D_SVOC, 17B0310: Batch B6B0565 was re-extracted due to failed QC.

Method: 8270D_SVOC, B7B0795-MS1/MSD1: MS/MSD recoveries for some compounds are below the laboratory control limits, most likely due to the sample matrix. The LCS/LCSD associated with the samples are acceptable.

Method: 8270D_SVOC, B7B0795-BS1/BSD1: RPD for one spike compound was outside of the laboratory control limit. The LCS/LCSD recoveries associated with the samples are acceptable.

Method: 548_ENDOTHALL, B7B0758-MS1: MS recovery for was below the laboratory control limit. The LCS associated with the samples is acceptable.

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AW-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**883**			uS/cm	02/16/17 10:05	B7B0677	PB
Method: SM2550-B							
Temperature	**54.8**			°F	02/16/17 10:05	B7B0677	PB
Method: SM4500-H							
pH	**7.34**	0.05		pH Units	02/16/17 10:05	B7B0677	PB
Metals by ICP-AES							
Method: SW6010C/D / SW3015							
Lithium	< 0.0500	0.0500		mg/L	02/21/17 16:56	B7B0719	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Arsenic	**210**	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Barium	**271**	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Beryllium	< 2.50	2.50		ug/L	02/17/17 14:15	B7B0589	AG
Boron	**162**	12.5		ug/L	02/17/17 14:15	B7B0589	AG
Cadmium	< 2.50	2.50		ug/L	02/17/17 14:15	B7B0589	AG
Calcium	**96.1**	1.25		mg/L	02/20/17 18:38	B7B0589	AG
Chromium	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Cobalt	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Copper	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Iron	**35700**	1250		ug/L	02/20/17 18:38	B7B0589	AG
Lead	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Manganese	**843**	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Molybdenum	< 0.0250	0.0250		mg/L	02/17/17 14:15	B7B0589	AG
Nickel	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Selenium	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Silver	< 2.50	2.50		ug/L	02/17/17 14:15	B7B0589	AG
Thallium	< 25.0	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Zinc	**191**	25.0		ug/L	02/17/17 14:15	B7B0589	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/02/17 11:46	B7C0062	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**22.9**	3.00		mg/L	02/17/17 23:46	B7B0577	NB1
Fluoride	< 0.500	0.500		mg/L	02/17/17 23:46	B7B0577	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/17/17 23:46	B7B0577	NB1
Sulfate	< 5.00	5.00		mg/L	02/17/17 23:46	B7B0577	NB1

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AW-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**412**	10.0		mg/L		02/17/17 10:50	B7B0610	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		02/20/17 11:51	B7B0656	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		02/17/17 13:51	B7B0593	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.519	0.519		ug/L		02/23/17 16:30	B7B0741	LP
Atrazine	< 0.519	0.519		ug/L		02/23/17 16:30	B7B0741	LP
Chlordane	< 0.519	0.519		ug/L		02/23/17 16:30	B7B0741	LP
Endrin	< 0.0519	0.0519		ug/L		02/23/17 16:30	B7B0741	LP
Lindane	< 0.0519	0.0519		ug/L		02/23/17 16:30	B7B0741	LP
Heptachlor	< 0.0519	0.0519		ug/L		02/23/17 16:30	B7B0741	LP
Heptachlor epoxide	< 0.0519	0.0519		ug/L		02/23/17 16:30	B7B0741	LP
Methoxychlor	< 0.0519	0.0519		ug/L		02/23/17 16:30	B7B0741	LP
Simazine	< 0.519	0.519		ug/L		02/23/17 16:30	B7B0741	LP
Toxaphene	< 2.07	2.07		ug/L		02/23/17 16:30	B7B0741	LP
Surrogate: Decachlorobiphenyl				*Recovery: 79%*	*Limits: 30-109*	*02/23/17 16:30*	*B7B0741*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 57%*	*Limits: 21-124*	*02/23/17 16:30*	*B7B0741*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Aroclor 1221	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Aroclor 1232	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Aroclor 1242	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Aroclor 1248	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Aroclor 1254	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Aroclor 1260	< 0.311	0.311		ug/L		02/24/17 13:51	B7B0684	CS2
Total PCB	< 1.04	1.04		ug/L		02/24/17 13:51	B7B0684	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 128%*	*Limits: 40-135*	*02/24/17 13:51*	*B7B0684*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 71%*	*Limits: 13-133*	*02/24/17 13:51*	*B7B0684*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		02/23/17 09:37	B7B0869	MNN
Carbofuran	< 2.00	2.00		ug/L		02/23/17 09:37	B7B0869	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.56	1.56		ug/L		02/20/17 16:10	B7B0611	MNN

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AW-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.56	1.56		ug/L		02/20/17 16:10	B7B0611	MNN
Dinoseb	< 1.56	1.56		ug/L		02/20/17 16:10	B7B0611	MNN
Picloram	< 1.56	1.56		ug/L		02/20/17 16:10	B7B0611	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 37-152*	*02/20/17 16:10*	*B7B0611*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/21/17 02:42	B7B0738	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/21/17 02:42	B7B0738	XN
1,2-Dichloropropane	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Benzene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Chlorobenzene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Ethylbenzene	< 2.00	2.00		ug/L		02/21/17 02:42	B7B0738	XN
Methyl tert-butyl ether	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Dichloromethane	< 2.00	2.00		ug/L		02/21/17 02:42	B7B0738	XN
Styrene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Tetrachloroethene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Toluene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Trichloroethene	< 4.00	4.00		ug/L		02/21/17 02:42	B7B0738	XN
Vinyl chloride	< 10.0	10.0		ug/L		02/21/17 02:42	B7B0738	XN
Xylenes, Total	< 20.0	20.0		ug/L		02/21/17 02:42	B7B0738	XN
Surrogate: Dibromofluoromethane				*Recovery: 96%*	*Limits: 80-119*	*02/21/17 02:42*	*B7B0738*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 111%*	*Limits: 81-118*	*02/21/17 02:42*	*B7B0738*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*02/21/17 02:42*	*B7B0738*	*XN*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*02/21/17 02:42*	*B7B0738*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 95%*	*Limits: 85-114*	*02/21/17 02:42*	*B7B0738*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 107%*	*Limits: 70-120*	*02/21/17 02:42*	*B7B0738*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.200	0.200		ug/L		03/01/17 17:40	B7C0087	LP
Ethylene Dibromide	< 0.200	0.200		ug/L		03/01/17 17:40	B7C0087	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AW-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		02/24/17 10:02	B7B0931	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 143%*	*Limits: 70-130*	*02/24/17 10:02*	*B7B0931*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/06/17 18:39	B7B0758	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 67%*	*Limits: 20-200*	*03/06/17 18:39*	*B7B0758*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.12	4.12		ug/L		02/28/17 19:12	B7B0795	JN1
o-Dichlorobenzene	< 2.06	2.06		ug/L		02/28/17 19:12	B7B0795	JN1
p-Dichlorobenzene	< 2.06	2.06		ug/L		02/28/17 19:12	B7B0795	JN1
Benzo(a)pyrene	< 4.12	4.12		ug/L		02/28/17 19:12	B7B0795	JN1
Di(2-ethylhexyl)phthalate	< 25.8	25.8		ug/L		02/28/17 19:12	B7B0795	JN1
Hexachlorocyclopentadiene	< 10.3	10.3		ug/L		02/28/17 19:12	B7B0795	JN1
Pentachlorophenol	< 51.5	51.5		ug/L		02/28/17 19:12	B7B0795	JN1
Surrogate: 2-Fluorophenol				*Recovery: 35%*	*Limits: 4-108*	*02/28/17 19:12*	*B7B0795*	*JN1*
Surrogate: Phenol-d5				*Recovery: 28%*	*Limits: 1-101*	*02/28/17 19:12*	*B7B0795*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*02/28/17 19:12*	*B7B0795*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 49%*	*Limits: 28-124*	*02/28/17 19:12*	*B7B0795*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 11-102*	*02/28/17 19:12*	*B7B0795*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 97%*	*Limits: 79-147*	*02/28/17 19:12*	*B7B0795*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.45**	0.15		pCi/L		03/03/17 00:00	17B0310-01	UL
Radium-228	**0.71**	0.47		pCi/L		03/03/17 00:00	17B0310-01	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-1
Report Date: 03/22/2017
Collection Date: 02/16/2017 09:15
Matrix: Groundwater
Lab ID: 17B0310-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1870**			uS/cm	02/16/17 09:15	B7B0677	PB
Method: SM2550-B							
Temperature	**54.8**			°F	02/16/17 09:15	B7B0677	PB
Method: SM4500-H							
pH	**6.96**	0.05		pH Units	02/16/17 09:15	B7B0677	PB
Metals by ICP-AES							
Method: SW6010C/D / SW3015							
Lithium	< 0.0500	0.0500		mg/L	02/21/17 17:00	B7B0719	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Arsenic	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Barium	**953**	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Beryllium	< 2.50	2.50		ug/L	02/17/17 14:16	B7B0589	AG
Boron	**22500**	125		ug/L	02/20/17 18:39	B7B0589	AG
Cadmium	< 2.50	2.50		ug/L	02/17/17 14:16	B7B0589	AG
Calcium	**266**	1.25		mg/L	02/20/17 18:39	B7B0589	AG
Chromium	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Cobalt	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Copper	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Iron	**30500**	125		ug/L	02/17/17 14:16	B7B0589	AG
Lead	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Manganese	**450**	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Molybdenum	< 0.0250	0.0250		mg/L	02/17/17 14:16	B7B0589	AG
Nickel	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Selenium	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Silver	< 2.50	2.50		ug/L	02/17/17 14:16	B7B0589	AG
Thallium	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Zinc	< 25.0	25.0		ug/L	02/17/17 14:16	B7B0589	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/02/17 11:48	B7C0062	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**47.9**	3.00		mg/L	02/18/17 00:14	B7B0577	NB1
Fluoride	< 0.500	0.500		mg/L	02/18/17 00:14	B7B0577	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/18/17 00:14	B7B0577	NB1
Sulfate	**645**	50.0		mg/L	02/21/17 11:26	B7B0697	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-1
Report Date: 03/22/2017
Collection Date: 02/16/2017 09:15
Matrix: Groundwater
Lab ID: 17B0310-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1430**	10.0		mg/L		02/17/17 10:50	B7B0610	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		02/21/17 11:59	B7B0711	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	**0.0422**	0.0100		mg/L		02/17/17 14:17	B7B0593	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.520	0.520		ug/L		02/23/17 17:17	B7B0741	LP
Atrazine	< 0.520	0.520		ug/L		02/23/17 17:17	B7B0741	LP
Chlordane	< 0.520	0.520		ug/L		02/23/17 17:17	B7B0741	LP
Endrin	< 0.0520	0.0520		ug/L		02/23/17 17:17	B7B0741	LP
Lindane	< 0.0520	0.0520		ug/L		02/23/17 17:17	B7B0741	LP
Heptachlor	< 0.0520	0.0520		ug/L		02/23/17 17:17	B7B0741	LP
Heptachlor epoxide	< 0.0520	0.0520		ug/L		02/23/17 17:17	B7B0741	LP
Methoxychlor	< 0.0520	0.0520		ug/L		02/23/17 17:17	B7B0741	LP
Simazine	< 0.520	0.520		ug/L		02/23/17 17:17	B7B0741	LP
Toxaphene	< 2.08	2.08		ug/L		02/23/17 17:17	B7B0741	LP
Surrogate: Decachlorobiphenyl				*Recovery: 67%*	*Limits: 30-109*	*02/23/17 17:17*	*B7B0741*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 60%*	*Limits: 21-124*	*02/23/17 17:17*	*B7B0741*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Aroclor 1221	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Aroclor 1232	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Aroclor 1242	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Aroclor 1248	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Aroclor 1254	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Aroclor 1260	< 0.312	0.312		ug/L		02/23/17 19:14	B7B0684	CS
Total PCB	< 1.04	1.04		ug/L		02/23/17 19:14	B7B0684	CS
Surrogate: Decachlorobiphenyl				*Recovery: 89%*	*Limits: 40-135*	*02/23/17 19:14*	*B7B0684*	*CS*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 64%*	*Limits: 13-133*	*02/23/17 19:14*	*B7B0684*	*CS*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		02/23/17 10:54	B7B0869	MNN
Carbofuran	< 2.00	2.00		ug/L		02/23/17 10:54	B7B0869	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.58	1.58		ug/L		02/20/17 16:51	B7B0611	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-1
Report Date: 03/22/2017
Collection Date: 02/16/2017 09:15
Matrix: Groundwater
Lab ID: 17B0310-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.58	1.58		ug/L		02/20/17 16:51	B7B0611	MNN
Dinoseb	< 1.58	1.58		ug/L		02/20/17 16:51	B7B0611	MNN
Picloram	< 1.58	1.58		ug/L		02/20/17 16:51	B7B0611	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 67%*	*Limits: 37-152*	*02/20/17 16:51*	*B7B0611*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/21/17 03:14	B7B0738	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/21/17 03:14	B7B0738	XN
1,2-Dichloropropane	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Benzene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Chlorobenzene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Ethylbenzene	< 2.00	2.00		ug/L		02/21/17 03:14	B7B0738	XN
Methyl tert-butyl ether	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Dichloromethane	< 2.00	2.00		ug/L		02/21/17 03:14	B7B0738	XN
Styrene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Tetrachloroethene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Toluene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Trichloroethene	< 4.00	4.00		ug/L		02/21/17 03:14	B7B0738	XN
Vinyl chloride	< 10.0	10.0		ug/L		02/21/17 03:14	B7B0738	XN
Xylenes, Total	< 20.0	20.0		ug/L		02/21/17 03:14	B7B0738	XN
Surrogate: Dibromofluoromethane				*Recovery: 95%*	*Limits: 80-119*	*02/21/17 03:14*	*B7B0738*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 81-118*	*02/21/17 03:14*	*B7B0738*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*02/21/17 03:14*	*B7B0738*	*XN*
Surrogate: Toluene-d8				*Recovery: 92%*	*Limits: 89-112*	*02/21/17 03:14*	*B7B0738*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 85-114*	*02/21/17 03:14*	*B7B0738*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 108%*	*Limits: 70-120*	*02/21/17 03:14*	*B7B0738*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.194	0.194		ug/L		03/01/17 19:14	B7C0087	LP
Ethylene Dibromide	< 0.194	0.194		ug/L		03/01/17 19:14	B7C0087	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-1
Report Date: 03/22/2017
Collection Date: 02/16/2017 09:15
Matrix: Groundwater
Lab ID: 17B0310-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		02/24/17 11:56	B7B0931	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 116%*	*Limits: 70-130*	*02/24/17 11:56*	*B7B0931*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/06/17 19:10	B7B0758	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 70%*	*Limits: 20-200*	*03/06/17 19:10*	*B7B0758*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.21	4.21		ug/L		02/28/17 19:46	B7B0795	JN1
o-Dichlorobenzene	< 2.10	2.10		ug/L		02/28/17 19:46	B7B0795	JN1
p-Dichlorobenzene	< 2.10	2.10		ug/L		02/28/17 19:46	B7B0795	JN1
Benzo(a)pyrene	< 4.21	4.21		ug/L		02/28/17 19:46	B7B0795	JN1
Di(2-ethylhexyl)phthalate	< 26.3	26.3		ug/L		02/28/17 19:46	B7B0795	JN1
Hexachlorocyclopentadiene	< 10.5	10.5		ug/L		02/28/17 19:46	B7B0795	JN1
Pentachlorophenol	< 52.6	52.6		ug/L		02/28/17 19:46	B7B0795	JN1
Surrogate: 2-Fluorophenol				*Recovery: 38%*	*Limits: 4-108*	*02/28/17 19:46*	*B7B0795*	*JN1*
Surrogate: Phenol-d5				*Recovery: 30%*	*Limits: 1-101*	*02/28/17 19:46*	*B7B0795*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 53%*	*Limits: 23-119*	*02/28/17 19:46*	*B7B0795*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 56%*	*Limits: 28-124*	*02/28/17 19:46*	*B7B0795*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 70%*	*Limits: 11-102*	*02/28/17 19:46*	*B7B0795*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-147*	*02/28/17 19:46*	*B7B0795*	*JN1*

Eurofins (Underwriters Laboratory), Subcontract

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.43**	0.13		pCi/L	03/03/17 00:00	17B0310-02	UL
Radium-228	**1.1**	0.45		pCi/L	03/03/17 00:00	17B0310-02	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-2
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:35
Matrix: Groundwater
Lab ID: 17B0310-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1510**			uS/cm	02/16/17 08:35	B7B0677	PB
Method: SM2550-B							
Temperature	**52.9**			°F	02/16/17 08:35	B7B0677	PB
Method: SM4500-H							
pH	**6.80**	0.05		pH Units	02/16/17 08:35	B7B0677	PB
Metals by ICP-AES							
Method: SW6010C/D / SW3015							
Lithium	< 0.0500	0.0500		mg/L	02/21/17 17:04	B7B0719	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Arsenic	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Barium	**99.8**	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Beryllium	< 2.50	2.50		ug/L	02/17/17 14:18	B7B0589	AG
Boron	**3920**	12.5		ug/L	02/17/17 14:18	B7B0589	AG
Cadmium	< 2.50	2.50		ug/L	02/17/17 14:18	B7B0589	AG
Calcium	**180**	1.25		mg/L	02/20/17 18:41	B7B0589	AG
Chromium	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Cobalt	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Copper	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Iron	**8180**	125		ug/L	02/17/17 14:18	B7B0589	AG
Lead	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Manganese	**7400**	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Molybdenum	< 0.0250	0.0250		mg/L	02/17/17 14:18	B7B0589	AG
Nickel	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Selenium	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Silver	< 2.50	2.50		ug/L	02/17/17 14:18	B7B0589	AG
Thallium	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Zinc	< 25.0	25.0		ug/L	02/17/17 14:18	B7B0589	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/02/17 11:49	B7C0062	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**41.5**	3.00		mg/L	02/18/17 00:43	B7B0577	NB1
Fluoride	< 0.500	0.500		mg/L	02/18/17 00:43	B7B0577	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/18/17 00:43	B7B0577	NB1
Sulfate	**279**	5.00		mg/L	02/18/17 00:43	B7B0577	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-2
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:35
Matrix: Groundwater
Lab ID: 17B0310-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**906**	10.0		mg/L		02/17/17 10:50	B7B0610	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		02/21/17 11:59	B7B0711	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		02/17/17 13:51	B7B0593	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.525	0.525		ug/L		02/23/17 18:03	B7B0741	LP
Atrazine	< 0.525	0.525		ug/L		02/23/17 18:03	B7B0741	LP
Chlordane	< 0.525	0.525		ug/L		02/23/17 18:03	B7B0741	LP
Endrin	< 0.0525	0.0525		ug/L		02/23/17 18:03	B7B0741	LP
Lindane	< 0.0525	0.0525		ug/L		02/23/17 18:03	B7B0741	LP
Heptachlor	< 0.0525	0.0525		ug/L		02/23/17 18:03	B7B0741	LP
Heptachlor epoxide	< 0.0525	0.0525		ug/L		02/23/17 18:03	B7B0741	LP
Methoxychlor	< 0.0525	0.0525		ug/L		02/23/17 18:03	B7B0741	LP
Simazine	< 0.525	0.525		ug/L		02/23/17 18:03	B7B0741	LP
Toxaphene	< 2.10	2.10		ug/L		02/23/17 18:03	B7B0741	LP
Surrogate: Decachlorobiphenyl				*Recovery: 65%*	*Limits: 30-109*	*02/23/17 18:03*	*B7B0741*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 21-124*	*02/23/17 18:03*	*B7B0741*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Aroclor 1221	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Aroclor 1232	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Aroclor 1242	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Aroclor 1248	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Aroclor 1254	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Aroclor 1260	< 0.315	0.315		ug/L		02/23/17 19:41	B7B0684	CS
Total PCB	< 1.05	1.05		ug/L		02/23/17 19:41	B7B0684	CS
Surrogate: Decachlorobiphenyl				*Recovery: 93%*	*Limits: 40-135*	*02/23/17 19:41*	*B7B0684*	*CS*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 42%*	*Limits: 13-133*	*02/23/17 19:41*	*B7B0684*	*CS*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		02/23/17 11:28	B7B0869	MNN
Carbofuran	< 2.00	2.00		ug/L		02/23/17 11:28	B7B0869	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.67	1.67		ug/L		02/20/17 17:33	B7B0611	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-2
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:35
Matrix: Groundwater
Lab ID: 17B0310-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.67	1.67		ug/L		02/20/17 17:33	B7B0611	MNN
Dinoseb	< 1.67	1.67		ug/L		02/20/17 17:33	B7B0611	MNN
Picloram	< 1.67	1.67		ug/L		02/20/17 17:33	B7B0611	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 74%*	*Limits: 37-152*	*02/20/17 17:33*	*B7B0611*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/21/17 02:10	B7B0738	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/21/17 02:10	B7B0738	XN
1,2-Dichloropropane	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Benzene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Chlorobenzene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Ethylbenzene	< 2.00	2.00		ug/L		02/21/17 02:10	B7B0738	XN
Methyl tert-butyl ether	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Dichloromethane	< 2.00	2.00		ug/L		02/21/17 02:10	B7B0738	XN
Styrene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Tetrachloroethene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Toluene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Trichloroethene	< 4.00	4.00		ug/L		02/21/17 02:10	B7B0738	XN
Vinyl chloride	< 10.0	10.0		ug/L		02/21/17 02:10	B7B0738	XN
Xylenes, Total	< 20.0	20.0		ug/L		02/21/17 02:10	B7B0738	XN
Surrogate: Dibromofluoromethane				*Recovery: 95%*	*Limits: 80-119*	*02/21/17 02:10*	*B7B0738*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 107%*	*Limits: 81-118*	*02/21/17 02:10*	*B7B0738*	*XN*
Surrogate: Fluorobenzene				*Recovery: 101%*	*Limits: 80-116*	*02/21/17 02:10*	*B7B0738*	*XN*
Surrogate: Toluene-d8				*Recovery: 92%*	*Limits: 89-112*	*02/21/17 02:10*	*B7B0738*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 97%*	*Limits: 85-114*	*02/21/17 02:10*	*B7B0738*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 106%*	*Limits: 70-120*	*02/21/17 02:10*	*B7B0738*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.194	0.194		ug/L		03/01/17 20:17	B7C0087	LP
Ethylene Dibromide	< 0.194	0.194		ug/L		03/01/17 20:17	B7C0087	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-2
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:35
Matrix: Groundwater
Lab ID: 17B0310-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		02/24/17 12:34	B7B0931	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 122%*	*Limits: 70-130*	*02/24/17 12:34*	*B7B0931*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/06/17 19:41	B7B0758	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 71%*	*Limits: 20-200*	*03/06/17 19:41*	*B7B0758*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.28	4.28		ug/L		02/28/17 20:20	B7B0795	JN1
o-Dichlorobenzene	< 2.14	2.14		ug/L		02/28/17 20:20	B7B0795	JN1
p-Dichlorobenzene	< 2.14	2.14		ug/L		02/28/17 20:20	B7B0795	JN1
Benzo(a)pyrene	< 4.28	4.28		ug/L		02/28/17 20:20	B7B0795	JN1
Di(2-ethylhexyl)phthalate	< 26.7	26.7		ug/L		02/28/17 20:20	B7B0795	JN1
Hexachlorocyclopentadiene	< 10.7	10.7		ug/L		02/28/17 20:20	B7B0795	JN1
Pentachlorophenol	< 53.5	53.5		ug/L		02/28/17 20:20	B7B0795	JN1
Surrogate: 2-Fluorophenol				*Recovery: 15%*	*Limits: 4-108*	*02/28/17 20:20*	*B7B0795*	*JN1*
Surrogate: Phenol-d5				*Recovery: 15%*	*Limits: 1-101*	*02/28/17 20:20*	*B7B0795*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 55%*	*Limits: 23-119*	*02/28/17 20:20*	*B7B0795*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 48%*	*Limits: 28-124*	*02/28/17 20:20*	*B7B0795*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 59%*	*Limits: 11-102*	*02/28/17 20:20*	*B7B0795*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-147*	*02/28/17 20:20*	*B7B0795*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.72**	0.15		pCi/L		03/03/17 00:00	17B0310-03	UL
Radium-228	**0.5**	0.53		pCi/L		03/03/17 00:00	17B0310-03	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:00
Matrix: Groundwater
Lab ID: 17B0310-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1310**			uS/cm	02/16/17 08:00	B7B0677	PB
Method: SM2550-B							
Temperature	**53.6**			°F	02/16/17 08:00	B7B0677	PB
Method: SM4500-H							
pH	**6.92**	0.05		pH Units	02/16/17 08:00	B7B0677	PB
Metals by ICP-AES							
Method: SW6010C/D / SW3015							
Lithium	< 0.0500	0.0500		mg/L	02/21/17 17:08	B7B0719	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Arsenic	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Barium	**124**	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Beryllium	< 2.50	2.50		ug/L	02/17/17 14:20	B7B0589	AG
Cadmium	< 2.50	2.50		ug/L	02/17/17 14:20	B7B0589	AG
Calcium	**198**	1.25		mg/L	02/20/17 18:43	B7B0589	AG
Chromium	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Cobalt	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Copper	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Iron	**18100**	125		ug/L	02/17/17 14:20	B7B0589	AG
Lead	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Manganese	**8140**	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Molybdenum	< 0.0250	0.0250		mg/L	02/17/17 14:20	B7B0589	AG
Nickel	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Selenium	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Silver	< 2.50	2.50		ug/L	02/17/17 14:20	B7B0589	AG
Thallium	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Zinc	< 25.0	25.0		ug/L	02/17/17 14:20	B7B0589	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/02/17 11:51	B7C0062	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**39.6**	3.00		mg/L	02/18/17 03:36	B7B0577	NB1
Fluoride	< 0.500	0.500		mg/L	02/18/17 03:36	B7B0577	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/18/17 03:36	B7B0577	NB1
Sulfate	**328**	50.0		mg/L	02/21/17 11:54	B7B0697	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:00
Matrix: Groundwater
Lab ID: 17B0310-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**810**	10.0		mg/L		02/17/17 10:50	B7B0610	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		02/21/17 11:59	B7B0711	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		02/17/17 13:51	B7B0593	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.530	0.530		ug/L		02/23/17 18:50	B7B0741	LP
Atrazine	< 0.530	0.530		ug/L		02/23/17 18:50	B7B0741	LP
Chlordane	< 0.530	0.530		ug/L		02/23/17 18:50	B7B0741	LP
Endrin	< 0.0530	0.0530		ug/L		02/23/17 18:50	B7B0741	LP
Lindane	< 0.0530	0.0530		ug/L		02/23/17 18:50	B7B0741	LP
Heptachlor	< 0.0530	0.0530		ug/L		02/23/17 18:50	B7B0741	LP
Heptachlor epoxide	< 0.0530	0.0530		ug/L		02/23/17 18:50	B7B0741	LP
Methoxychlor	< 0.0530	0.0530		ug/L		02/23/17 18:50	B7B0741	LP
Simazine	< 0.530	0.530		ug/L		02/23/17 18:50	B7B0741	LP
Toxaphene	< 2.12	2.12		ug/L		02/23/17 18:50	B7B0741	LP
Surrogate: Decachlorobiphenyl				*Recovery: 63%*	*Limits: 30-109*	*02/23/17 18:50*	*B7B0741*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 56%*	*Limits: 21-124*	*02/23/17 18:50*	*B7B0741*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Aroclor 1221	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Aroclor 1232	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Aroclor 1242	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Aroclor 1248	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Aroclor 1254	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Aroclor 1260	< 0.318	0.318		ug/L		02/23/17 20:07	B7B0684	CS
Total PCB	< 1.06	1.06		ug/L		02/23/17 20:07	B7B0684	CS
Surrogate: Decachlorobiphenyl				*Recovery: 92%*	*Limits: 40-135*	*02/23/17 20:07*	*B7B0684*	*CS*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 65%*	*Limits: 13-133*	*02/23/17 20:07*	*B7B0684*	*CS*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		02/23/17 12:01	B7B0869	MNN
Carbofuran	< 2.00	2.00		ug/L		02/23/17 12:01	B7B0869	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.59	1.59		ug/L		02/20/17 18:14	B7B0611	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:00
Matrix: Groundwater
Lab ID: 17B0310-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.59	1.59		ug/L		02/20/17 18:14	B7B0611	MNN
Dinoseb	< 1.59	1.59		ug/L		02/20/17 18:14	B7B0611	MNN
Picloram	< 1.59	1.59		ug/L		02/20/17 18:14	B7B0611	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 70%*	*Limits: 37-152*	*02/20/17 18:14*	*B7B0611*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/21/17 01:37	B7B0738	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/21/17 01:37	B7B0738	XN
1,2-Dichloropropane	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Benzene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Chlorobenzene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Ethylbenzene	< 2.00	2.00		ug/L		02/21/17 01:37	B7B0738	XN
Methyl tert-butyl ether	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Dichloromethane	< 2.00	2.00		ug/L		02/21/17 01:37	B7B0738	XN
Styrene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Tetrachloroethene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Toluene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Trichloroethene	< 4.00	4.00		ug/L		02/21/17 01:37	B7B0738	XN
Vinyl chloride	< 10.0	10.0		ug/L		02/21/17 01:37	B7B0738	XN
Xylenes, Total	< 20.0	20.0		ug/L		02/21/17 01:37	B7B0738	XN
Surrogate: Dibromofluoromethane				*Recovery: 99%*	*Limits: 80-119*	*02/21/17 01:37*	*B7B0738*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 115%*	*Limits: 81-118*	*02/21/17 01:37*	*B7B0738*	*XN*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*02/21/17 01:37*	*B7B0738*	*XN*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 89-112*	*02/21/17 01:37*	*B7B0738*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 85-114*	*02/21/17 01:37*	*B7B0738*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 106%*	*Limits: 70-120*	*02/21/17 01:37*	*B7B0738*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		03/01/17 20:48	B7C0087	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		03/01/17 20:48	B7C0087	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-3
Report Date: 03/22/2017
Collection Date: 02/16/2017 08:00
Matrix: Groundwater
Lab ID: 17B0310-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		02/24/17 13:12	B7B0931	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 127%*	*Limits: 70-130*	*02/24/17 13:12*	*B7B0931*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/06/17 20:44	B7B0758	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 79%*	*Limits: 20-200*	*03/06/17 20:44*	*B7B0758*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.27	4.27		ug/L		02/28/17 20:53	B7B0795	JN1
o-Dichlorobenzene	< 2.13	2.13		ug/L		02/28/17 20:53	B7B0795	JN1
p-Dichlorobenzene	< 2.13	2.13		ug/L		02/28/17 20:53	B7B0795	JN1
Benzo(a)pyrene	< 4.27	4.27		ug/L		02/28/17 20:53	B7B0795	JN1
Di(2-ethylhexyl)phthalate	< 26.7	26.7		ug/L		02/28/17 20:53	B7B0795	JN1
Hexachlorocyclopentadiene	< 10.7	10.7		ug/L		02/28/17 20:53	B7B0795	JN1
Pentachlorophenol	< 53.3	53.3		ug/L		02/28/17 20:53	B7B0795	JN1
Surrogate: 2-Fluorophenol				*Recovery: 29%*	*Limits: 4-108*	*02/28/17 20:53*	*B7B0795*	*JN1*
Surrogate: Phenol-d5				*Recovery: 26%*	*Limits: 1-101*	*02/28/17 20:53*	*B7B0795*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 59%*	*Limits: 23-119*	*02/28/17 20:53*	*B7B0795*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 58%*	*Limits: 28-124*	*02/28/17 20:53*	*B7B0795*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 64%*	*Limits: 11-102*	*02/28/17 20:53*	*B7B0795*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 104%*	*Limits: 79-147*	*02/28/17 20:53*	*B7B0795*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.26**	0.15		pCi/L		03/09/17 00:00	17B0310-04	UL
Radium-228	**1.8**	0.53		pCi/L		03/09/17 00:00	17B0310-04	UL

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-4
Report Date: 03/22/2017
Collection Date: 02/16/2017 07:25
Matrix: Groundwater
Lab ID: 17B0310-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1010**			uS/cm	02/16/17 07:25	B7B0677	PB
Method: SM2550-B							
Temperature	**56.5**			°F	02/16/17 07:25	B7B0677	PB
Method: SM4500-H							
pH	**7.02**	0.05		pH Units	02/16/17 07:25	B7B0677	PB
Metals by ICP-AES							
Method: SW6010C/D / SW3015							
Lithium	< 0.0500	0.0500		mg/L	02/21/17 17:12	B7B0719	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Arsenic	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Barium	**413**	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Beryllium	< 2.50	2.50		ug/L	02/17/17 14:22	B7B0589	AG
Boron	**117**	12.5		ug/L	02/17/17 14:22	B7B0589	AG
Cadmium	< 2.50	2.50		ug/L	02/17/17 14:22	B7B0589	AG
Calcium	**136**	1.25		mg/L	02/20/17 18:45	B7B0589	AG
Chromium	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Cobalt	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Copper	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Iron	**12100**	125		ug/L	02/17/17 14:22	B7B0589	AG
Lead	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Manganese	**146**	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Molybdenum	< 0.0250	0.0250		mg/L	02/17/17 14:22	B7B0589	AG
Nickel	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Selenium	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Silver	< 2.50	2.50		ug/L	02/17/17 14:22	B7B0589	AG
Thallium	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Zinc	< 25.0	25.0		ug/L	02/17/17 14:22	B7B0589	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/02/17 11:53	B7C0062	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**10.6**	3.00		mg/L	02/18/17 04:05	B7B0577	NB1
Fluoride	< 0.500	0.500		mg/L	02/18/17 04:05	B7B0577	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	02/18/17 04:05	B7B0577	NB1
Sulfate	< 5.00	5.00		mg/L	02/18/17 04:05	B7B0577	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-4
Report Date: 03/22/2017
Collection Date: 02/16/2017 07:25
Matrix: Groundwater
Lab ID: 17B0310-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**482**	10.0		mg/L		02/17/17 10:50	B7B0610	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		02/21/17 11:59	B7B0711	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		02/17/17 13:51	B7B0593	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.521	0.521		ug/L		02/23/17 19:36	B7B0741	LP
Atrazine	< 0.521	0.521		ug/L		02/23/17 19:36	B7B0741	LP
Chlordane	< 0.521	0.521		ug/L		02/23/17 19:36	B7B0741	LP
Endrin	< 0.0521	0.0521		ug/L		02/23/17 19:36	B7B0741	LP
Lindane	< 0.0521	0.0521		ug/L		02/23/17 19:36	B7B0741	LP
Heptachlor	< 0.0521	0.0521		ug/L		02/23/17 19:36	B7B0741	LP
Heptachlor epoxide	< 0.0521	0.0521		ug/L		02/23/17 19:36	B7B0741	LP
Methoxychlor	< 0.0521	0.0521		ug/L		02/23/17 19:36	B7B0741	LP
Simazine	< 0.521	0.521		ug/L		02/23/17 19:36	B7B0741	LP
Toxaphene	< 2.09	2.09		ug/L		02/23/17 19:36	B7B0741	LP
Surrogate: Decachlorobiphenyl				*Recovery: 80%*	*Limits: 30-109*	*02/23/17 19:36*	*B7B0741*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 56%*	*Limits: 21-124*	*02/23/17 19:36*	*B7B0741*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Aroclor 1221	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Aroclor 1232	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Aroclor 1242	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Aroclor 1248	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Aroclor 1254	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Aroclor 1260	< 0.313	0.313		ug/L		02/23/17 20:34	B7B0684	CS
Total PCB	< 1.04	1.04		ug/L		02/23/17 20:34	B7B0684	CS
Surrogate: Decachlorobiphenyl				*Recovery: 92%*	*Limits: 40-135*	*02/23/17 20:34*	*B7B0684*	*CS*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 57%*	*Limits: 13-133*	*02/23/17 20:34*	*B7B0684*	*CS*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		02/23/17 12:34	B7B0869	MNN
Carbofuran	< 2.00	2.00		ug/L		02/23/17 12:34	B7B0869	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.59	1.59		ug/L		02/20/17 18:55	B7B0611	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-4
Report Date: 03/22/2017
Collection Date: 02/16/2017 07:25
Matrix: Groundwater
Lab ID: 17B0310-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.59	1.59		ug/L		02/20/17 18:55	B7B0611	MNN
Dinoseb	< 1.59	1.59		ug/L		02/20/17 18:55	B7B0611	MNN
Picloram	< 1.59	1.59		ug/L		02/20/17 18:55	B7B0611	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 73%*	*Limits: 37-152*	*02/20/17 18:55*	*B7B0611*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/21/17 01:05	B7B0738	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/21/17 01:05	B7B0738	XN
1,2-Dichloropropane	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Benzene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Chlorobenzene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Ethylbenzene	< 2.00	2.00		ug/L		02/21/17 01:05	B7B0738	XN
Methyl tert-butyl ether	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Dichloromethane	< 2.00	2.00		ug/L		02/21/17 01:05	B7B0738	XN
Styrene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Tetrachloroethene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Toluene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Trichloroethene	< 4.00	4.00		ug/L		02/21/17 01:05	B7B0738	XN
Vinyl chloride	< 10.0	10.0		ug/L		02/21/17 01:05	B7B0738	XN
Xylenes, Total	< 20.0	20.0		ug/L		02/21/17 01:05	B7B0738	XN
Surrogate: Dibromofluoromethane				*Recovery: 91%*	*Limits: 80-119*	*02/21/17 01:05*	*B7B0738*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 105%*	*Limits: 81-118*	*02/21/17 01:05*	*B7B0738*	*XN*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*02/21/17 01:05*	*B7B0738*	*XN*
Surrogate: Toluene-d8				*Recovery: 92%*	*Limits: 89-112*	*02/21/17 01:05*	*B7B0738*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 96%*	*Limits: 85-114*	*02/21/17 01:05*	*B7B0738*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 105%*	*Limits: 70-120*	*02/21/17 01:05*	*B7B0738*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.189	0.189		ug/L		03/01/17 21:19	B7C0087	LP
Ethylene Dibromide	< 0.189	0.189		ug/L		03/01/17 21:19	B7C0087	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-4
Report Date: 03/22/2017
Collection Date: 02/16/2017 07:25
Matrix: Groundwater
Lab ID: 17B0310-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		02/24/17 14:30	B7B0931	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 130%*	*Limits: 70-130*	*02/24/17 14:30*	*B7B0931*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/06/17 21:20	B7B0758	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 69%*	*Limits: 20-200*	*03/06/17 21:20*	*B7B0758*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.18	4.18		ug/L		02/28/17 21:27	B7B0795	JN1
o-Dichlorobenzene	< 2.09	2.09		ug/L		02/28/17 21:27	B7B0795	JN1
p-Dichlorobenzene	< 2.09	2.09		ug/L		02/28/17 21:27	B7B0795	JN1
Benzo(a)pyrene	< 4.18	4.18		ug/L		02/28/17 21:27	B7B0795	JN1
Di(2-ethylhexyl)phthalate	< 26.2	26.2		ug/L		02/28/17 21:27	B7B0795	JN1
Hexachlorocyclopentadiene	< 10.5	10.5		ug/L		02/28/17 21:27	B7B0795	JN1
Pentachlorophenol	< 52.3	52.3		ug/L		02/28/17 21:27	B7B0795	JN1
Surrogate: 2-Fluorophenol				*Recovery: 41%*	*Limits: 4-108*	*02/28/17 21:27*	*B7B0795*	*JN1*
Surrogate: Phenol-d5				*Recovery: 34%*	*Limits: 1-101*	*02/28/17 21:27*	*B7B0795*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 57%*	*Limits: 23-119*	*02/28/17 21:27*	*B7B0795*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 54%*	*Limits: 28-124*	*02/28/17 21:27*	*B7B0795*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 65%*	*Limits: 11-102*	*02/28/17 21:27*	*B7B0795*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-147*	*02/28/17 21:27*	*B7B0795*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.82**	0.16		pCi/L		03/09/17 00:00	17B0310-05	UL
Radium-228	**1.7**	0.47		pCi/L		03/09/17 00:00	17B0310-05	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-5
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**549**			uS/cm	02/16/17 10:05	B7B0677	CD
Method: SM2550-B							
Temperature	**52.1**			°F	02/16/17 10:05	B7B0677	CD
Method: SM4500-H							
pH	**7.42**	0.05		pH Units	02/16/17 10:05	B7B0677	CD
Metals by ICP-AES							
Method: SW6010C/D / SW3015							
Lithium	< 0.0500	0.0500		mg/L	02/21/17 17:32	B7B0719	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Arsenic	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Barium	**137**	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Beryllium	< 2.50	2.50		ug/L	02/17/17 14:24	B7B0589	AG
Boron	**48.3**	12.5		ug/L	02/17/17 14:24	B7B0589	AG
Cadmium	< 2.50	2.50		ug/L	02/17/17 14:24	B7B0589	AG
Calcium	**155**	1.25		mg/L	02/20/17 18:46	B7B0589	AG
Chromium	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Cobalt	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Copper	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Iron	**17000**	125		ug/L	02/17/17 14:24	B7B0589	AG
Lead	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Manganese	**593**	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Molybdenum	< 0.0250	0.0250		mg/L	02/17/17 14:24	B7B0589	AG
Nickel	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Selenium	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Silver	< 2.50	2.50		ug/L	02/17/17 14:24	B7B0589	AG
Thallium	< 25.0	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Zinc	**118**	25.0		ug/L	02/17/17 14:24	B7B0589	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	03/02/17 11:59	B7C0062	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	02/18/17 04:33	B7B0577	NB1
Fluoride	< 0.500	0.500		mg/L	02/18/17 04:33	B7B0577	NB1
Nitrogen, Nitrate	**1.73**	0.500		mg/L	02/18/17 04:33	B7B0577	NB1
Sulfate	**55.5**	5.00		mg/L	02/18/17 04:33	B7B0577	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-5
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**406**	10.0		mg/L		02/17/17 10:50	B7B0610	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		02/21/17 11:59	B7B0711	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		02/17/17 13:51	B7B0593	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.508	0.508		ug/L		02/24/17 12:31	B7B0741	LP
Atrazine	< 0.508	0.508		ug/L		02/24/17 12:31	B7B0741	LP
Chlordane	< 0.508	0.508		ug/L		02/24/17 12:31	B7B0741	LP
Endrin	< 0.0508	0.0508		ug/L		02/24/17 12:31	B7B0741	LP
Lindane	< 0.0508	0.0508		ug/L		02/24/17 12:31	B7B0741	LP
Heptachlor	< 0.0508	0.0508		ug/L		02/24/17 12:31	B7B0741	LP
Heptachlor epoxide	< 0.0508	0.0508		ug/L		02/24/17 12:31	B7B0741	LP
Methoxychlor	< 0.0508	0.0508		ug/L		02/24/17 12:31	B7B0741	LP
Simazine	< 0.508	0.508		ug/L		02/24/17 12:31	B7B0741	LP
Toxaphene	< 2.03	2.03		ug/L		02/24/17 12:31	B7B0741	LP
Surrogate: Decachlorobiphenyl				*Recovery: 90%*	*Limits: 30-109*	*02/24/17 12:31*	*B7B0741*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 65%*	*Limits: 21-124*	*02/24/17 12:31*	*B7B0741*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Aroclor 1221	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Aroclor 1232	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Aroclor 1242	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Aroclor 1248	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Aroclor 1254	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Aroclor 1260	< 0.305	0.305		ug/L		02/23/17 21:01	B7B0684	CS
Total PCB	< 1.02	1.02		ug/L		02/23/17 21:01	B7B0684	CS
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 40-135*	*02/23/17 21:01*	*B7B0684*	*CS*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 59%*	*Limits: 13-133*	*02/23/17 21:01*	*B7B0684*	*CS*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		02/23/17 13:13	B7B0869	MNN
Carbofuran	< 2.00	2.00		ug/L		02/23/17 13:13	B7B0869	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.52	1.52		ug/L		02/20/17 19:36	B7B0611	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-5
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.52	1.52		ug/L		02/20/17 19:36	B7B0611	MNN
Dinoseb	< 1.52	1.52		ug/L		02/20/17 19:36	B7B0611	MNN
Picloram	< 1.52	1.52		ug/L		02/20/17 19:36	B7B0611	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 37-152*	*02/20/17 19:36*	*B7B0611*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
1,1-Dichloroethene	< 2.00	2.00		ug/L		02/21/17 00:33	B7B0738	XN
1,2-Dichloroethane	< 2.00	2.00		ug/L		02/21/17 00:33	B7B0738	XN
1,2-Dichloropropane	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Benzene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Carbon tetrachloride	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Chlorobenzene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Ethylbenzene	< 2.00	2.00		ug/L		02/21/17 00:33	B7B0738	XN
Methyl tert-butyl ether	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Dichloromethane	< 2.00	2.00		ug/L		02/21/17 00:33	B7B0738	XN
Styrene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Tetrachloroethene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Toluene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Trichloroethene	< 4.00	4.00		ug/L		02/21/17 00:33	B7B0738	XN
Vinyl chloride	< 10.0	10.0		ug/L		02/21/17 00:33	B7B0738	XN
Xylenes, Total	< 20.0	20.0		ug/L		02/21/17 00:33	B7B0738	XN
Surrogate: Dibromofluoromethane				*Recovery: 99%*	*Limits: 80-119*	*02/21/17 00:33*	*B7B0738*	*XN*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 106%*	*Limits: 81-118*	*02/21/17 00:33*	*B7B0738*	*XN*
Surrogate: Fluorobenzene				*Recovery: 98%*	*Limits: 80-116*	*02/21/17 00:33*	*B7B0738*	*XN*
Surrogate: Toluene-d8				*Recovery: 92%*	*Limits: 89-112*	*02/21/17 00:33*	*B7B0738*	*XN*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%*	*Limits: 85-114*	*02/21/17 00:33*	*B7B0738*	*XN*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 104%*	*Limits: 70-120*	*02/21/17 00:33*	*B7B0738*	*XN*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.189	0.189		ug/L		03/01/17 21:51	B7C0087	LP
Ethylene Dibromide	< 0.189	0.189		ug/L		03/01/17 21:51	B7C0087	LP

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
1Q 2017
Work Order: 17B0310

Client Sample ID: AP-5
Report Date: 03/22/2017
Collection Date: 02/16/2017 10:05
Matrix: Groundwater
Lab ID: 17B0310-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.1								
Dalapon	< 8.00	8.00		ug/L		02/24/17 15:07	B7B0931	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 126%*	*Limits: 70-130*	*02/24/17 15:07*	*B7B0931*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		03/06/17 17:38	B7B0758	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 54%*	*Limits: 20-200*	*03/06/17 17:38*	*B7B0758*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.13	4.13		ug/L		02/28/17 22:00	B7B0795	JN1
o-Dichlorobenzene	< 2.07	2.07		ug/L		02/28/17 22:00	B7B0795	JN1
p-Dichlorobenzene	< 2.07	2.07		ug/L		02/28/17 22:00	B7B0795	JN1
Benzo(a)pyrene	< 4.13	4.13		ug/L		02/28/17 22:00	B7B0795	JN1
Di(2-ethylhexyl)phthalate	< 25.8	25.8		ug/L		02/28/17 22:00	B7B0795	JN1
Hexachlorocyclopentadiene	< 10.3	10.3		ug/L		02/28/17 22:00	B7B0795	JN1
Pentachlorophenol	< 51.6	51.6		ug/L		02/28/17 22:00	B7B0795	JN1
Surrogate: 2-Fluorophenol				*Recovery: 33%*	*Limits: 4-108*	*02/28/17 22:00*	*B7B0795*	*JN1*
Surrogate: Phenol-d5				*Recovery: 22%*	*Limits: 1-101*	*02/28/17 22:00*	*B7B0795*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*02/28/17 22:00*	*B7B0795*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 46%*	*Limits: 28-124*	*02/28/17 22:00*	*B7B0795*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 52%*	*Limits: 11-102*	*02/28/17 22:00*	*B7B0795*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 97%*	*Limits: 79-147*	*02/28/17 22:00*	*B7B0795*	*JN1*
Eurofins (Underwriters Laboratory), Subcontract								
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.34**	0.12		pCi/L		03/09/17 00:00	17B0310-06	UL
Radium-228	**0.85**	0.49		pCi/L		03/09/17 00:00	17B0310-06	UL

Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

CHAIN OF CUSTODY

17B0310

Lab Work Order Number **17B0310**

Client Name: City, Water, Light & Power		Project Name	
Client Contact: Sue Corcoran		Project Number	
Address: 201 East Lake Shore Drive		Project Description	
City: Springfield		PO Number	
State/Zip: IL, 62707-		Shipped By	
Phone: (217) 757-8610 / (217) 757-8615	Fax	Tracking Number	
Sampler: P. Brahmer		Sampler Signature: Patrick Brahmer	

Requested Analyses: 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH; 2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4; 504_DBCP_EDB; 548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB; 8260B_VOC; 9014_CYANIDE; 9065_PHENOL

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) | Expedited (days) | Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	AG::1	P::3	V::5	P::4	AG::2	TEMP	pH	Sample Comments
AW-3	2/16/17	1005	GRAB	GW	21	1	1	2	8	1	3	1	1	54.8	7.34	01ABCDEFGHIJSK LMNOPQRST
AP-1	2/16/17	0915	GRAB	GW	21	1	1	2	8	1	3	1	1	54.8	6.96	02ABCDEFGHIJKLM NOPQRST
AP-2	2/16/17	0835	GRAB	GW	21	1	1	2	8	1	3	1	1	52.9	6.90	03ABCDEFGHIJKLMN OPQRST
AP-3	2/16/17	0800	GRAB	GW	21	1	1	2	8	1	3	1	1	53.6	6.92	04ABCDEFGHIJKLMN OPQRST
AP-4	2/16/17	0725	GRAB	GW	21	1	1	2	8	1	3	1	1	56.5	7.02	05ABCDEFGHIJKLMN OPQRST
AP-5			GRAB	GW	21	1	1	2	8	1	3	1	1			

Relinquished By: Patrick Brahmer	Date/Time: 2/16/17 1420	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Comments	
Relinquished By	Date/Time	Received By	Date/Time: 2/16/17 14:20		
Cooler Numbers and Temperatures: 3.9					

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

Cal pH 7.0 = 7.0 @ 0645

Table of Contents

Environmental Monitoring and Technologies, Inc.

CHAIN OF CUSTODY

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

17B0310

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Lab Work Order Number **17B0310**

Client Name	Project Name
City, Water, Light & Power	
Client Contact	Project Number
Sue Corcoran	
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Cubtis Duncan

Requested Analyses

2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH
2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4
504_DBCP_EDB
548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB
8260B_VOC
9014_CYANIDE
9065_PHENOL

Requested Turn Around

Rush requests subject to additional charge.

Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	AG::1	P::3	V::5	P::4	AG::2	TEMP	pH	Sample Comments
AW-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-1			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-2			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-3			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-4			GRAB	GW	21	1	1	2	8	1	3	1	1			
AP-5	2/6/17	1005	GRAB	GW	21	1	1	2	8	1	3	1	1	52.1	7.42	ABCDEFGHIJK LMNOPQRST

	Date/Time		Date/Time	
Relinquished By: Cubtis Duncan	2/6/17 1110	Received By: Patrick Beard	2/6/17 1110	
Relinquished By: Patrick Beard	2/6/17 1920	Received By:	Date/Time	Comments
Relinquished By:	Date/Time	Received By:	Date/Time: 2/6/17 1420	
Cooler Numbers and Temperatures: 4.9				

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

PH7 = 7.00 @ 0655

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Environmental Monitoring and Technologies, Inc.

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Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

July 10, 2017

Work Order: 17E0123

RE: List G20
2Q 2017

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 7/10/2017 12:30:22PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674

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Sample Summary

Sample ID	Sub Lab	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3		17E0123-01	Groundwater	05/31/17 09:35	05/31/17 14:05
AP-1		17E0123-02	Groundwater	05/31/17 08:15	05/31/17 14:05
AP-2		17E0123-03	Groundwater	05/31/17 07:50	05/31/17 14:05
AP-3		17E0123-04	Groundwater	05/31/17 08:45	05/31/17 14:05
AP-4		17E0123-05	Groundwater	05/05/17 09:30	05/31/17 14:05
AP-5		17E0123-06	Groundwater	05/05/17 10:40	05/31/17 14:05
AW-3	Eurofins-Eaton (Underwriters'	17E0123-01	Groundwater	05/31/17 09:35	05/31/17 14:05
AP-1	Eurofins-Eaton (Underwriters'	17E0123-02	Groundwater	05/31/17 08:15	05/31/17 14:05
AP-2	Eurofins-Eaton (Underwriters'	17E0123-03	Groundwater	05/31/17 07:50	05/31/17 14:05
AP-3	Eurofins-Eaton (Underwriters'	17E0123-04	Groundwater	05/31/17 08:45	05/31/17 14:05
AP-4	Eurofins-Eaton (Underwriters'	17E0123-05	Groundwater	05/05/17 09:30	05/31/17 14:05
AP-5	Eurofins-Eaton (Underwriters'	17E0123-06	Groundwater	05/05/17 10:40	05/31/17 14:05

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Case Narrative

Client: City, Water, Light & Power **Date:** 07/10/2017
Project: List G20
2Q 2017
Work Order: 17E0123

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 17E0123
The samples were received on05/05/17 00:00. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	4.0

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed.

Sample 17E0123-01, 03, 04, and 06 were decanted prior to the Radium 226 and 228 analysis due to the sediment in the samples that would interfere with the test.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles

Method: 8082A_PCB, B7E0339-BLK1: One surrogate recovery was above the laboratory control limit.

Method: 8082A_PCB, S7E0190-CCV2: The recovery of one compound in the bracketing CCV was below the limit. The surrogate recoveries in the samples were within acceptable limits.

GC/MS Semivolatiles

Method: 504_DBCP_EDB, B7F0518-BS1/BSD1: RPDs for two spike compounds were outside of the laboratory control limits. The compounds in question were not detected in the associated samples.

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GC Semivolatiles

Method: 8081B_PEST, 17E0123-04, 05: One surrogate recovery was above the laboratory control limit.

Method: 8081B_PEST, B7E0338-BLK1/BS1/BSD1: One surrogate recovery was above the laboratory control limit.

Method: 8081B_PEST, S7F0273-CCV4: The recovery of one compound in the bracketing continuing calibration verification (CCV) was above the laboratory control limit. However, the compound in question was not detected in the associated samples.

Method: 552_Dalapon, B7F0174: The samples associated with batch B7F0174 were re-extracted.

Method: 552_Dalapon, 17E0123-01, 02, 03, 04, 05: The surrogate recovery was outside the laboratory control limit.

Method: 552_Dalapon, B7F0495-BLK2/DUP1/MS1: The surrogate recovery was above the laboratory control limit.

Method: 552_Dalapon, B7F0495-BS2/MS1: The target compound recovery was below the laboratory control limit. The samples were not re-extracted becuase the recommended hold time had passed.

Method: 552_Dalapon, S7F0378-CCV3: The surrogate recovery in the bracketing continuing calibration verification (CCV) was above the laboratory control limit.

GC/MS Semivolatiles

Method: 548_ENDOTHALL, B7E0284-MS1: MS recovery was below the laboratory control limit. The LCS associated with the samples is acceptable.

Method: 548_ENDOTHALL, B7E0200-MS1: MS recovery was below the laboratory control limit. The LCS associated with the samples is acceptable.

Method: 548_ENDOTHALL, S7E0271-CCV2: The recovery of the surrogate compound in the continuing calibration verification (CCV) was above the laboratory control limits. The surrogate recovery in the samples were within acceptable laboratory control limit.

Method: 8270D_SVOC, 17E0123-04: One internal standard recovery was below the laboratory control limit. One target compound associated with the internal standard was reported, but the target compound was not present in the sample.

Method: 8270D_SVOC, B7F0262-BS1: The recovery for one spike compound in the LCS was above laboratory control limit. The compound in question was not detected in the associated samples.

Method: 8270D_SVOC, S7F0219-CCV1: The percent recovery for one poor behaving analyte was below the laboratory control limit.

Method: 8270D_SVOC, S7F0219-CCV2: The percent recovery for one poor behaving analyte was below the laboratory control limit.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AW-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 09:35
Matrix: Groundwater
Lab ID: 17E0123-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**644**			uS/cm	05/31/17 09:35	B7F0066	JD1
Method: SM2550-B							
Temperature	**61.8**			°F	05/31/17 09:35	B7F0066	JD1
Method: SM4500-H							
pH	**7.21**	0.05		pH Units	05/31/17 09:35	B7F0066	JD1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	06/07/17 22:32	B7F0170	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Arsenic	**85.6**	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Barium	**202**	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Beryllium	< 2.50	2.50		ug/L	06/06/17 14:26	B7F0136	AG
Boron	**163**	12.5		ug/L	06/06/17 14:26	B7F0136	AG
Cadmium	< 2.50	2.50		ug/L	06/06/17 14:26	B7F0136	AG
Calcium	**69.9**	1.25		mg/L	06/06/17 16:35	B7F0136	AG
Chromium	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Cobalt	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Copper	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Iron	**4380**	125		ug/L	06/06/17 14:26	B7F0136	AG
Lead	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Manganese	**290**	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/06/17 14:26	B7F0136	AG
Nickel	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Selenium	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Silver	< 2.50	2.50		ug/L	06/06/17 14:26	B7F0136	AG
Thallium	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Zinc	< 25.0	25.0		ug/L	06/06/17 14:26	B7F0136	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	06/12/17 14:02	B7F0375	TB2
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**26.8**	3.00		mg/L	06/01/17 05:49	B7E1219	NB1
Fluoride	< 0.500	0.500		mg/L	06/01/17 05:49	B7E1219	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	06/01/17 05:49	B7E1219	NB1
Sulfate	**7.75**	5.00		mg/L	06/01/17 05:49	B7E1219	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AW-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 09:35
Matrix: Groundwater
Lab ID: 17E0123-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units			Date/Time Analyzed	Batch	Analyst
Wet Chemistry									
Method: SM2540C									
Total Dissolved Solids (Residue, Filterable)	**442**	10.0		mg/L			06/06/17 13:00	B7F0211	CP1
Method: SW9014 by Aquachem / SW9010B									
Cyanide	< 0.010	0.010		mg/L			06/01/17 11:55	B7F0011	KJ1
Method: SW9065 by Aquachem									
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L			06/01/17 13:58	B7F0021	KJ1
Organochlorine Pesticides by GC/ECD									
Method: SW8081B / SW3510									
Alachlor	< 0.494	0.494		ug/L			06/13/17 20:58	B7F0206	LP
Atrazine	< 0.494	0.494		ug/L			06/13/17 20:58	B7F0206	LP
Chlordane	< 0.494	0.494		ug/L			06/13/17 20:58	B7F0206	LP
Endrin	< 0.0494	0.0494		ug/L			06/13/17 20:58	B7F0206	LP
Lindane	< 0.0494	0.0494		ug/L			06/13/17 20:58	B7F0206	LP
Heptachlor	< 0.0494	0.0494		ug/L			06/13/17 20:58	B7F0206	LP
Heptachlor epoxide	< 0.0494	0.0494		ug/L			06/13/17 20:58	B7F0206	LP
Methoxychlor	< 0.0494	0.0494		ug/L			06/13/17 20:58	B7F0206	LP
Simazine	< 0.494	0.494		ug/L			06/13/17 20:58	B7F0206	LP
Toxaphene	< 1.98	1.98		ug/L			06/13/17 20:58	B7F0206	LP
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 30-109*		*06/13/17 20:58*	*B7F0206*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 56%*	*Limits: 21-124*		*06/13/17 20:58*	*B7F0206*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Method: SW8082A / SW3510									
Aroclor 1016	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Aroclor 1221	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Aroclor 1232	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Aroclor 1242	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Aroclor 1248	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Aroclor 1254	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Aroclor 1260	< 0.296	0.296		ug/L			06/09/17 22:59	B7F0207	CS2
Total PCB	< 0.988	0.988		ug/L			06/09/17 22:59	B7F0207	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 110%*	*Limits: 40-135*		*06/09/17 22:59*	*B7F0207*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 57%*	*Limits: 13-133*		*06/09/17 22:59*	*B7F0207*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)									
Method: E531.1									
Aldicarb	< 2.00	2.00		ug/L			06/07/17 11:58	B7F0219	AMP/MNN
Carbofuran	< 2.00	2.00		ug/L			06/07/17 11:58	B7F0219	AMP/MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)									
Method: SW8321B / SW3510									
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L			06/12/17 08:45	B7F0215	AMP/MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AW-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 09:35
Matrix: Groundwater
Lab ID: 17E0123-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.49	1.49		ug/L		06/12/17 08:45	B7F0215	AMP/MNN
Dinoseb	< 1.49	1.49		ug/L		06/12/17 08:45	B7F0215	AMP/MNN
Picloram	< 1.49	1.49		ug/L		06/12/17 08:45	B7F0215	AMP/MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 80%*	*Limits: 37-128*	*06/12/17 08:45*	*B7F0215*	*AMP/MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		06/05/17 15:09	B7F0165	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		06/05/17 15:09	B7F0165	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Benzene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Chlorobenzene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Ethylbenzene	< 0.400	0.400		ug/L		06/05/17 15:09	B7F0165	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Dichloromethane	< 0.400	0.400		ug/L		06/05/17 15:09	B7F0165	FP1
Styrene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Toluene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Trichloroethene	< 0.800	0.800		ug/L		06/05/17 15:09	B7F0165	FP1
Vinyl chloride	< 2.00	2.00		ug/L		06/05/17 15:09	B7F0165	FP1
Xylenes, Total	< 4.00	4.00		ug/L		06/05/17 15:09	B7F0165	FP1
Surrogate: Dibromofluoromethane				*Recovery: 95%*	*Limits: 84-137*	*06/05/17 15:09*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 97%*	*Limits: 87-127*	*06/05/17 15:09*	*B7F0165*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 96%*	*Limits: 80-116*	*06/05/17 15:09*	*B7F0165*	*FP1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 85-112*	*06/05/17 15:09*	*B7F0165*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 112%*	*Limits: 90-119*	*06/05/17 15:09*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 106%*	*Limits: 87-138*	*06/05/17 15:09*	*B7F0165*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.188	0.188		ug/L		06/13/17 21:58	B7F0518	LP
Ethylene Dibromide	< 0.188	0.188		ug/L		06/13/17 21:58	B7F0518	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AW-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 09:35
Matrix: Groundwater
Lab ID: 17E0123-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 8.00	8.00		ug/L		06/15/17 19:17	B7F0495	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 383%*	*Limits: 70-130*	*06/15/17 19:17*	*B7F0495*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		06/06/17 16:25	B7F0200	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 123%*	*Limits: 20-200*	*06/06/17 16:25*	*B7F0200*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 3.93	3.93		ug/L		06/10/17 11:06	B7F0262	JN1
o-Dichlorobenzene	< 1.96	1.96		ug/L		06/10/17 11:06	B7F0262	JN1
p-Dichlorobenzene	< 1.96	1.96		ug/L		06/10/17 11:06	B7F0262	JN1
Benzo(a)pyrene	< 3.93	3.93		ug/L		06/10/17 11:06	B7F0262	JN1
Di(2-ethylhexyl)phthalate	< 24.6	24.6		ug/L		06/10/17 11:06	B7F0262	JN1
Hexachlorocyclopentadiene	< 9.82	9.82		ug/L		06/10/17 11:06	B7F0262	JN1
Pentachlorophenol	< 49.1	49.1		ug/L		06/10/17 11:06	B7F0262	JN1
Surrogate: 2-Fluorophenol				*Recovery: 45%*	*Limits: 4-108*	*06/10/17 11:06*	*B7F0262*	*JN1*
Surrogate: Phenol-d5				*Recovery: 34%*	*Limits: 1-101*	*06/10/17 11:06*	*B7F0262*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 68%*	*Limits: 23-119*	*06/10/17 11:06*	*B7F0262*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 68%*	*Limits: 28-124*	*06/10/17 11:06*	*B7F0262*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 78%*	*Limits: 11-102*	*06/10/17 11:06*	*B7F0262*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 120%*	*Limits: 79-147*	*06/10/17 11:06*	*B7F0262*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.18**	0.17		pCi/L	06/23/17 00:00	17E0123-01	UL
Radium-228	**0.62**	0.55		pCi/L	06/23/17 00:00	17E0123-01	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-1
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:15
Matrix: Groundwater
Lab ID: 17E0123-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1530**			uS/cm	05/31/17 08:15	B7F0066	JD1
Method: SM2550-B							
Temperature	**64.7**			°F	05/31/17 08:15	B7F0066	JD1
Method: SM4500-H							
pH	**6.72**	0.05		pH Units	05/31/17 08:15	B7F0066	JD1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	06/07/17 22:36	B7F0170	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Arsenic	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Barium	**253**	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Beryllium	< 2.50	2.50		ug/L	06/06/17 14:28	B7F0136	AG
Boron	**13900**	125		ug/L	06/06/17 16:37	B7F0136	AG
Cadmium	< 2.50	2.50		ug/L	06/06/17 14:28	B7F0136	AG
Calcium	**173**	1.25		mg/L	06/06/17 16:37	B7F0136	AG
Chromium	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Cobalt	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Copper	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Iron	**9660**	125		ug/L	06/06/17 14:28	B7F0136	AG
Lead	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Manganese	**338**	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/06/17 14:28	B7F0136	AG
Nickel	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Selenium	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Silver	< 2.50	2.50		ug/L	06/06/17 14:28	B7F0136	AG
Thallium	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Zinc	< 25.0	25.0		ug/L	06/06/17 14:28	B7F0136	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	06/12/17 14:17	B7F0375	TB2
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**44.6**	3.00		mg/L	06/01/17 08:12	B7E1219	NB1
Fluoride	< 0.500	0.500		mg/L	06/01/17 08:12	B7E1219	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	06/01/17 08:12	B7E1219	NB1
Sulfate	**532**	50.0		mg/L	06/07/17 19:49	B7F0230	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-1
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:15
Matrix: Groundwater
Lab ID: 17E0123-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1180**	10.0		mg/L		06/06/17 13:00	B7F0211	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		06/01/17 11:55	B7F0011	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		06/01/17 13:58	B7F0021	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.494	0.494		ug/L		06/13/17 21:44	B7F0206	LP
Atrazine	< 0.494	0.494		ug/L		06/13/17 21:44	B7F0206	LP
Chlordane	< 0.494	0.494		ug/L		06/13/17 21:44	B7F0206	LP
Endrin	< 0.0494	0.0494		ug/L		06/13/17 21:44	B7F0206	LP
Lindane	< 0.0494	0.0494		ug/L		06/13/17 21:44	B7F0206	LP
Heptachlor	< 0.0494	0.0494		ug/L		06/13/17 21:44	B7F0206	LP
Heptachlor epoxide	< 0.0494	0.0494		ug/L		06/13/17 21:44	B7F0206	LP
Methoxychlor	< 0.0494	0.0494		ug/L		06/13/17 21:44	B7F0206	LP
Simazine	< 0.494	0.494		ug/L		06/13/17 21:44	B7F0206	LP
Toxaphene	< 1.98	1.98		ug/L		06/13/17 21:44	B7F0206	LP
Surrogate: Decachlorobiphenyl				*Recovery: 97%*	*Limits: 30-109*	*06/13/17 21:44*	*B7F0206*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 60%*	*Limits: 21-124*	*06/13/17 21:44*	*B7F0206*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Aroclor 1221	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Aroclor 1232	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Aroclor 1242	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Aroclor 1248	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Aroclor 1254	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Aroclor 1260	< 0.296	0.296		ug/L		06/09/17 23:23	B7F0207	CS2
Total PCB	< 0.988	0.988		ug/L		06/09/17 23:23	B7F0207	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 104%*	*Limits: 40-135*	*06/09/17 23:23*	*B7F0207*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 60%*	*Limits: 13-133*	*06/09/17 23:23*	*B7F0207*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/07/17 12:30	B7F0219	AMP/MNN
Carbofuran	< 2.00	2.00		ug/L		06/07/17 12:30	B7F0219	AMP/MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.47	1.47		ug/L		06/12/17 09:24	B7F0215	AMP/MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-1
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:15
Matrix: Groundwater
Lab ID: 17E0123-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.47	1.47		ug/L		06/12/17 09:24	B7F0215	AMP/MNN
Dinoseb	< 1.47	1.47		ug/L		06/12/17 09:24	B7F0215	AMP/MNN
Picloram	< 1.47	1.47		ug/L		06/12/17 09:24	B7F0215	AMP/MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 79%*	*Limits: 37-128*	*06/12/17 09:24*	*B7F0215*	*AMP/MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		06/05/17 15:42	B7F0165	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		06/05/17 15:42	B7F0165	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Benzene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Chlorobenzene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Ethylbenzene	< 0.400	0.400		ug/L		06/05/17 15:42	B7F0165	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Dichloromethane	< 0.400	0.400		ug/L		06/05/17 15:42	B7F0165	FP1
Styrene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Toluene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Trichloroethene	< 0.800	0.800		ug/L		06/05/17 15:42	B7F0165	FP1
Vinyl chloride	< 2.00	2.00		ug/L		06/05/17 15:42	B7F0165	FP1
Xylenes, Total	< 4.00	4.00		ug/L		06/05/17 15:42	B7F0165	FP1
Surrogate: Dibromofluoromethane				*Recovery: 95%*	*Limits: 84-137*	*06/05/17 15:42*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 98%*	*Limits: 87-127*	*06/05/17 15:42*	*B7F0165*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 96%*	*Limits: 80-116*	*06/05/17 15:42*	*B7F0165*	*FP1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 85-112*	*06/05/17 15:42*	*B7F0165*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 107%*	*Limits: 90-119*	*06/05/17 15:42*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 108%*	*Limits: 87-138*	*06/05/17 15:42*	*B7F0165*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.187	0.187		ug/L		06/13/17 22:29	B7F0518	LP
Ethylene Dibromide	< 0.187	0.187		ug/L		06/13/17 22:29	B7F0518	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-1
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:15
Matrix: Groundwater
Lab ID: 17E0123-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 8.00	8.00		ug/L		06/19/17 18:12	B7F0495	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 487%*	*Limits: 70-130*	*06/19/17 18:12*	*B7F0495*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		06/06/17 17:25	B7F0200	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 107%*	*Limits: 20-200*	*06/06/17 17:25*	*B7F0200*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 3.96	3.96		ug/L		06/10/17 11:47	B7F0262	JN1
o-Dichlorobenzene	< 1.98	1.98		ug/L		06/10/17 11:47	B7F0262	JN1
p-Dichlorobenzene	< 1.98	1.98		ug/L		06/10/17 11:47	B7F0262	JN1
Benzo(a)pyrene	< 3.96	3.96		ug/L		06/10/17 11:47	B7F0262	JN1
Di(2-ethylhexyl)phthalate	< 24.8	24.8		ug/L		06/10/17 11:47	B7F0262	JN1
Hexachlorocyclopentadiene	< 9.90	9.90		ug/L		06/10/17 11:47	B7F0262	JN1
Pentachlorophenol	< 49.5	49.5		ug/L		06/10/17 11:47	B7F0262	JN1
Surrogate: 2-Fluorophenol				*Recovery: 37%*	*Limits: 4-108*	*06/10/17 11:47*	*B7F0262*	*JN1*
Surrogate: Phenol-d5				*Recovery: 30%*	*Limits: 1-101*	*06/10/17 11:47*	*B7F0262*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 58%*	*Limits: 23-119*	*06/10/17 11:47*	*B7F0262*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 57%*	*Limits: 28-124*	*06/10/17 11:47*	*B7F0262*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 68%*	*Limits: 11-102*	*06/10/17 11:47*	*B7F0262*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 121%*	*Limits: 79-147*	*06/10/17 11:47*	*B7F0262*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.72**	0.14	pCi/L		06/23/17 00:00	17E0123-02	UL
Radium-228	**0.58**	0.62	pCi/L		06/23/17 00:00	17E0123-02	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-2
Report Date: 07/10/2017
Collection Date: 05/31/2017 07:50
Matrix: Groundwater
Lab ID: 17E0123-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1200**			uS/cm	05/31/17 07:50	B7F0066	JD1
Method: SM2550-B							
Temperature	**63.0**			°F	05/31/17 07:50	B7F0066	JD1
Method: SM4500-H							
pH	**6.60**	0.05		pH Units	05/31/17 07:50	B7F0066	JD1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	06/07/17 22:40	B7F0170	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Arsenic	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Barium	**89.2**	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Beryllium	< 2.50	2.50		ug/L	06/06/17 14:30	B7F0136	AG
Boron	**3630**	12.5		ug/L	06/06/17 14:30	B7F0136	AG
Cadmium	< 2.50	2.50		ug/L	06/06/17 14:30	B7F0136	AG
Calcium	**174**	1.25		mg/L	06/06/17 16:39	B7F0136	AG
Chromium	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Cobalt	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Copper	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Iron	**2640**	125		ug/L	06/06/17 14:30	B7F0136	AG
Lead	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Manganese	**9160**	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/06/17 14:30	B7F0136	AG
Nickel	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Selenium	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Silver	< 2.50	2.50		ug/L	06/06/17 14:30	B7F0136	AG
Thallium	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Zinc	< 25.0	25.0		ug/L	06/06/17 14:30	B7F0136	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	06/12/17 14:19	B7F0375	TB2
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**42.1**	3.00		mg/L	06/01/17 08:41	B7E1219	NB1
Fluoride	< 0.500	0.500		mg/L	06/01/17 08:41	B7E1219	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	06/01/17 08:41	B7E1219	NB1
Sulfate	**346**	50.0		mg/L	06/07/17 20:17	B7F0230	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-2
Report Date: 07/10/2017
Collection Date: 05/31/2017 07:50
Matrix: Groundwater
Lab ID: 17E0123-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units			Date/Time Analyzed	Batch	Analyst
Wet Chemistry									
Method: SM2540C									
Total Dissolved Solids (Residue, Filterable)	**1020**	10.0		mg/L			06/06/17 13:00	B7F0211	CP1
Method: SW9014 by Aquachem / SW9010B									
Cyanide	< 0.010	0.010		mg/L			06/01/17 11:55	B7F0011	KJ1
Method: SW9065 by Aquachem									
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L			06/02/17 14:55	B7F0071	KJ1
Organochlorine Pesticides by GC/ECD									
Method: SW8081B / SW3510									
Alachlor	< 0.490	0.490		ug/L			06/13/17 22:31	B7F0206	LP
Atrazine	< 0.490	0.490		ug/L			06/13/17 22:31	B7F0206	LP
Chlordane	< 0.490	0.490		ug/L			06/13/17 22:31	B7F0206	LP
Endrin	< 0.0490	0.0490		ug/L			06/13/17 22:31	B7F0206	LP
Lindane	< 0.0490	0.0490		ug/L			06/13/17 22:31	B7F0206	LP
Heptachlor	< 0.0490	0.0490		ug/L			06/13/17 22:31	B7F0206	LP
Heptachlor epoxide	< 0.0490	0.0490		ug/L			06/13/17 22:31	B7F0206	LP
Methoxychlor	< 0.0490	0.0490		ug/L			06/13/17 22:31	B7F0206	LP
Simazine	< 0.490	0.490		ug/L			06/13/17 22:31	B7F0206	LP
Toxaphene	< 1.96	1.96		ug/L			06/13/17 22:31	B7F0206	LP
Surrogate: Decachlorobiphenyl				*Recovery: 108%*	*Limits: 30-109*		*06/13/17 22:31*	*B7F0206*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 60%*	*Limits: 21-124*		*06/13/17 22:31*	*B7F0206*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Method: SW8082A / SW3510									
Aroclor 1016	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Aroclor 1221	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Aroclor 1232	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Aroclor 1242	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Aroclor 1248	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Aroclor 1254	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Aroclor 1260	< 0.294	0.294		ug/L			06/09/17 23:48	B7F0207	CS2
Total PCB	< 0.981	0.981		ug/L			06/09/17 23:48	B7F0207	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 106%*	*Limits: 40-135*		*06/09/17 23:48*	*B7F0207*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 54%*	*Limits: 13-133*		*06/09/17 23:48*	*B7F0207*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)									
Method: E531.1									
Aldicarb	< 2.00	2.00		ug/L			06/07/17 13:05	B7F0219	AMP/MNN
Carbofuran	< 2.00	2.00		ug/L			06/07/17 13:05	B7F0219	AMP/MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)									
Method: SW8321B / SW3510									
2,4,5-TP (Silvex)	< 1.47	1.47		ug/L			06/12/17 10:03	B7F0215	AMP/MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-2
Report Date: 07/10/2017
Collection Date: 05/31/2017 07:50
Matrix: Groundwater
Lab ID: 17E0123-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.47	1.47		ug/L		06/12/17 10:03	B7F0215	AMP/MNN
Dinoseb	< 1.47	1.47		ug/L		06/12/17 10:03	B7F0215	AMP/MNN
Picloram	< 1.47	1.47		ug/L		06/12/17 10:03	B7F0215	AMP/MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 76%*	*Limits: 37-128*	*06/12/17 10:03*	*B7F0215*	*AMP/MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		06/05/17 16:14	B7F0165	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		06/05/17 16:14	B7F0165	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Benzene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Chlorobenzene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Ethylbenzene	< 0.400	0.400		ug/L		06/05/17 16:14	B7F0165	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Dichloromethane	< 0.400	0.400		ug/L		06/05/17 16:14	B7F0165	FP1
Styrene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Toluene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Trichloroethene	< 0.800	0.800		ug/L		06/05/17 16:14	B7F0165	FP1
Vinyl chloride	< 2.00	2.00		ug/L		06/05/17 16:14	B7F0165	FP1
Xylenes, Total	< 4.00	4.00		ug/L		06/05/17 16:14	B7F0165	FP1
Surrogate: Dibromofluoromethane				*Recovery: 96%*	*Limits: 84-137*	*06/05/17 16:14*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 104%*	*Limits: 87-127*	*06/05/17 16:14*	*B7F0165*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 97%*	*Limits: 80-116*	*06/05/17 16:14*	*B7F0165*	*FP1*
Surrogate: Toluene-d8				*Recovery: 99%*	*Limits: 85-112*	*06/05/17 16:14*	*B7F0165*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 112%*	*Limits: 90-119*	*06/05/17 16:14*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 107%*	*Limits: 87-138*	*06/05/17 16:14*	*B7F0165*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.185	0.185		ug/L		06/14/17 12:57	B7F0518	LP
Ethylene Dibromide	< 0.185	0.185		ug/L		06/14/17 12:57	B7F0518	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-2
Report Date: 07/10/2017
Collection Date: 05/31/2017 07:50
Matrix: Groundwater
Lab ID: 17E0123-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 8.00	8.00		ug/L		06/19/17 21:52	B7F0495	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 1190%*	*Limits: 70-130*	*06/19/17 21:52*	*B7F0495*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		06/06/17 18:25	B7F0200	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 94%*	*Limits: 20-200*	*06/06/17 18:25*	*B7F0200*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 3.90	3.90		ug/L		06/10/17 12:27	B7F0262	JN1
o-Dichlorobenzene	< 1.95	1.95		ug/L		06/10/17 12:27	B7F0262	JN1
p-Dichlorobenzene	< 1.95	1.95		ug/L		06/10/17 12:27	B7F0262	JN1
Benzo(a)pyrene	< 3.90	3.90		ug/L		06/10/17 12:27	B7F0262	JN1
Di(2-ethylhexyl)phthalate	< 24.3	24.3		ug/L		06/10/17 12:27	B7F0262	JN1
Hexachlorocyclopentadiene	< 9.74	9.74		ug/L		06/10/17 12:27	B7F0262	JN1
Pentachlorophenol	< 48.7	48.7		ug/L		06/10/17 12:27	B7F0262	JN1
Surrogate: 2-Fluorophenol				*Recovery: 11%*	*Limits: 4-108*	*06/10/17 12:27*	*B7F0262*	*JN1*
Surrogate: Phenol-d5				*Recovery: 6%*	*Limits: 1-101*	*06/10/17 12:27*	*B7F0262*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*06/10/17 12:27*	*B7F0262*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 51%*	*Limits: 28-124*	*06/10/17 12:27*	*B7F0262*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 49%*	*Limits: 11-102*	*06/10/17 12:27*	*B7F0262*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 111%*	*Limits: 79-147*	*06/10/17 12:27*	*B7F0262*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.42**	0.18	pCi/L		06/23/17 00:00	17E0123-03	UL
Radium-228	**0.96**	0.59	pCi/L		06/23/17 00:00	17E0123-03	UL

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:45
Matrix: Groundwater
Lab ID: 17E0123-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1030**			uS/cm	05/31/17 08:45	B7F0066	JD1
Method: SM2550-B							
Temperature	**63.3**			°F	05/31/17 08:45	B7F0066	JD1
Method: SM4500-H							
pH	**6.55**	0.05		pH Units	05/31/17 08:45	B7F0066	JD1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	06/07/17 23:01	B7F0170	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Arsenic	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Barium	**84.9**	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Beryllium	< 2.50	2.50		ug/L	06/06/17 16:26	B7F0136	AG
Boron	**17700**	125		ug/L	06/06/17 16:40	B7F0136	AG
Cadmium	< 2.50	2.50		ug/L	06/06/17 16:26	B7F0136	AG
Calcium	**138**	1.25		mg/L	06/06/17 16:40	B7F0136	AG
Chromium	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Cobalt	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Copper	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Iron	**8390**	125		ug/L	06/06/17 16:26	B7F0136	AG
Lead	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Manganese	**6920**	250		ug/L	06/06/17 16:40	B7F0136	AG
Molybdenum	< 0.0250	0.0250		mg/L	06/06/17 16:26	B7F0136	AG
Nickel	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Selenium	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Silver	< 2.50	2.50		ug/L	06/06/17 16:26	B7F0136	AG
Thallium	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Zinc	< 25.0	25.0		ug/L	06/06/17 16:26	B7F0136	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	06/12/17 14:21	B7F0375	TB2
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**39.9**	3.00		mg/L	06/01/17 09:10	B7E1219	NB1
Fluoride	< 0.500	0.500		mg/L	06/01/17 09:10	B7E1219	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	06/01/17 09:10	B7E1219	NB1
Sulfate	**328**	50.0		mg/L	06/07/17 20:46	B7F0230	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:45
Matrix: Groundwater
Lab ID: 17E0123-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**848**	10.0		mg/L		06/06/17 13:00	B7F0211	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		06/01/17 11:55	B7F0011	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		06/01/17 13:58	B7F0021	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.490	0.490		ug/L		06/21/17 01:51	B7F0206	LP
Atrazine	< 0.490	0.490		ug/L		06/21/17 01:51	B7F0206	LP
Chlordane	< 0.490	0.490		ug/L		06/21/17 01:51	B7F0206	LP
Endrin	< 0.0490	0.0490		ug/L		06/21/17 01:51	B7F0206	LP
Lindane	< 0.0490	0.0490		ug/L		06/21/17 01:51	B7F0206	LP
Heptachlor	< 0.0490	0.0490		ug/L		06/21/17 01:51	B7F0206	LP
Heptachlor epoxide	< 0.0490	0.0490		ug/L		06/21/17 01:51	B7F0206	LP
Methoxychlor	< 0.0490	0.0490		ug/L		06/21/17 01:51	B7F0206	LP
Simazine	< 0.490	0.490		ug/L		06/21/17 01:51	B7F0206	LP
Toxaphene	< 1.96	1.96		ug/L		06/21/17 01:51	B7F0206	LP
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 114%*	*Limits: 30-109*	*06/21/17 01:51*	*B7F0206*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 61%*	*Limits: 21-124*	*06/21/17 01:51*	*B7F0206*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Aroclor 1221	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Aroclor 1232	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Aroclor 1242	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Aroclor 1248	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Aroclor 1254	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Aroclor 1260	< 0.294	0.294		ug/L		06/10/17 00:12	B7F0207	CS2
Total PCB	< 0.981	0.981		ug/L		06/10/17 00:12	B7F0207	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 105%*	*Limits: 40-135*	*06/10/17 00:12*	*B7F0207*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 55%*	*Limits: 13-133*	*06/10/17 00:12*	*B7F0207*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		06/07/17 13:48	B7F0219	AMP/MNN
Carbofuran	< 2.00	2.00		ug/L		06/07/17 13:48	B7F0219	AMP/MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.48	1.48		ug/L		06/12/17 10:43	B7F0215	AMP/MNN

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:45
Matrix: Groundwater
Lab ID: 17E0123-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.48	1.48		ug/L		06/12/17 10:43	B7F0215	AMP/MNN
Dinoseb	< 1.48	1.48		ug/L		06/12/17 10:43	B7F0215	AMP/MNN
Picloram	< 1.48	1.48		ug/L		06/12/17 10:43	B7F0215	AMP/MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 78%*	*Limits: 37-128*	*06/12/17 10:43*	*B7F0215*	*AMP/MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		06/05/17 16:47	B7F0165	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		06/05/17 16:47	B7F0165	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Benzene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Chlorobenzene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Ethylbenzene	< 0.400	0.400		ug/L		06/05/17 16:47	B7F0165	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Dichloromethane	< 0.400	0.400		ug/L		06/05/17 16:47	B7F0165	FP1
Styrene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Toluene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Trichloroethene	< 0.800	0.800		ug/L		06/05/17 16:47	B7F0165	FP1
Vinyl chloride	< 2.00	2.00		ug/L		06/05/17 16:47	B7F0165	FP1
Xylenes, Total	< 4.00	4.00		ug/L		06/05/17 16:47	B7F0165	FP1
Surrogate: Dibromofluoromethane				*Recovery: 99%*	*Limits: 84-137*	*06/05/17 16:47*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 104%*	*Limits: 87-127*	*06/05/17 16:47*	*B7F0165*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*06/05/17 16:47*	*B7F0165*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 85-112*	*06/05/17 16:47*	*B7F0165*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 109%*	*Limits: 90-119*	*06/05/17 16:47*	*B7F0165*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 103%*	*Limits: 87-138*	*06/05/17 16:47*	*B7F0165*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.188	0.188		ug/L		06/13/17 23:32	B7F0518	LP
Ethylene Dibromide	< 0.188	0.188		ug/L		06/13/17 23:32	B7F0518	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-3
Report Date: 07/10/2017
Collection Date: 05/31/2017 08:45
Matrix: Groundwater
Lab ID: 17E0123-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 8.00	8.00		ug/L		06/19/17 22:28	B7F0495	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 1040%*	*Limits: 70-130*	*06/19/17 22:28*	*B7F0495*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		06/06/17 18:55	B7F0200	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 78%*	*Limits: 20-200*	*06/06/17 18:55*	*B7F0200*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 3.90	3.90		ug/L		06/10/17 13:08	B7F0262	JN1
o-Dichlorobenzene	< 1.95	1.95		ug/L		06/10/17 13:08	B7F0262	JN1
p-Dichlorobenzene	< 1.95	1.95		ug/L		06/10/17 13:08	B7F0262	JN1
Benzo(a)pyrene	< 3.90	3.90		ug/L		06/10/17 13:08	B7F0262	JN1
Di(2-ethylhexyl)phthalate	< 24.4	24.4		ug/L		06/10/17 13:08	B7F0262	JN1
Hexachlorocyclopentadiene	< 9.76	9.76		ug/L		06/10/17 13:08	B7F0262	JN1
Pentachlorophenol	< 48.8	48.8		ug/L		06/10/17 13:08	B7F0262	JN1
Surrogate: 2-Fluorophenol				*Recovery: 10%*	*Limits: 4-108*	*06/10/17 13:08*	*B7F0262*	*JN1*
Surrogate: Phenol-d5				*Recovery: 5%*	*Limits: 1-101*	*06/10/17 13:08*	*B7F0262*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 60%*	*Limits: 23-119*	*06/10/17 13:08*	*B7F0262*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 61%*	*Limits: 28-124*	*06/10/17 13:08*	*B7F0262*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 47%*	*Limits: 11-102*	*06/10/17 13:08*	*B7F0262*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 97%*	*Limits: 79-147*	*06/10/17 13:08*	*B7F0262*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.55**	0.15	pCi/L		06/23/17 00:00	17E0123-04	UL
Radium-228	**0.47**	0.52	pCi/L		06/23/17 00:00	17E0123-04	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-4
Report Date: 07/10/2017
Collection Date: 05/05/2017 09:30
Matrix: Groundwater
Lab ID: 17E0123-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**949**			uS/cm	05/05/17 09:30	B7F0066	CL1
Method: SM2550-B							
Temperature	**59.8**			°F	05/05/17 09:30	B7F0066	CL1
Method: SM4500-H							
pH	**7.08**	0.05		pH Units	05/05/17 09:30	B7F0066	CL1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	05/09/17 19:45	B7E0315	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Arsenic	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Barium	**405**	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Beryllium	< 2.50	2.50		ug/L	05/08/17 14:42	B7E0267	AG
Boron	**120**	12.5		ug/L	05/08/17 14:42	B7E0267	AG
Cadmium	< 2.50	2.50		ug/L	05/08/17 14:42	B7E0267	AG
Calcium	**117**	1.25		mg/L	05/08/17 15:26	B7E0267	AG
Chromium	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Cobalt	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Copper	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Iron	**11600**	125		ug/L	05/08/17 14:42	B7E0267	AG
Lead	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Manganese	**152**	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/08/17 14:42	B7E0267	AG
Nickel	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Selenium	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Silver	< 2.50	2.50		ug/L	05/08/17 14:42	B7E0267	AG
Thallium	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Zinc	< 25.0	25.0		ug/L	05/08/17 14:42	B7E0267	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/10/17 14:42	B7E0356	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**12.0**	3.00		mg/L	05/05/17 20:11	B7E0194	NB1
Fluoride	< 0.500	0.500		mg/L	05/05/17 20:11	B7E0194	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	05/05/17 20:11	B7E0194	NB1
Sulfate	< 5.00	5.00		mg/L	05/05/17 20:11	B7E0194	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-4
Report Date: 07/10/2017
Collection Date: 05/05/2017 09:30
Matrix: Groundwater
Lab ID: 17E0123-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**538**	10.0		mg/L		05/10/17 09:30	B7E0404	CP1
Method: SW9014 by Aquachem / SW9010B								
Cyanide	< 0.010	0.010		mg/L		05/09/17 12:28	B7E0313	KJ1
Method: SW9065 by Aquachem								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		05/08/17 13:37	B7E0260	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.512	0.512		ug/L		05/16/17 12:00	B7E0338	MNN
Atrazine	< 0.512	0.512		ug/L		05/16/17 12:00	B7E0338	MNN
Chlordane	< 0.512	0.512		ug/L		05/16/17 12:00	B7E0338	MNN
Endrin	< 0.0512	0.0512		ug/L		05/16/17 12:00	B7E0338	MNN
Lindane	< 0.0512	0.0512		ug/L		05/16/17 12:00	B7E0338	MNN
Heptachlor	< 0.0512	0.0512		ug/L		05/16/17 12:00	B7E0338	MNN
Heptachlor epoxide	< 0.0512	0.0512		ug/L		05/16/17 12:00	B7E0338	MNN
Methoxychlor	< 0.0512	0.0512		ug/L		05/16/17 12:00	B7E0338	MNN
Simazine	< 0.512	0.512		ug/L		05/16/17 12:00	B7E0338	MNN
Toxaphene	< 2.05	2.05		ug/L		05/16/17 12:00	B7E0338	MNN
Surrogate: Decachlorobiphenyl			*S*	*Recovery: 116%*	*Limits: 30-109*	*05/16/17 12:00*	*B7E0338*	*MNN*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 47%*	*Limits: 21-124*	*05/16/17 12:00*	*B7E0338*	*MNN*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Aroclor 1221	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Aroclor 1232	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Aroclor 1242	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Aroclor 1248	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Aroclor 1254	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Aroclor 1260	< 0.307	0.307		ug/L		05/11/17 01:30	B7E0339	CS2
Total PCB	< 1.02	1.02		ug/L		05/11/17 01:30	B7E0339	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 91%*	*Limits: 40-135*	*05/11/17 01:30*	*B7E0339*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 45%*	*Limits: 13-133*	*05/11/17 01:30*	*B7E0339*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		05/24/17 10:53	B7E0960	AMP/MNN
Carbofuran	< 2.00	2.00		ug/L		05/24/17 10:53	B7E0960	AMP/MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 0.200	0.200		ug/L		05/15/17 22:07	B7E0169	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-4
Report Date: 07/10/2017
Collection Date: 05/05/2017 09:30
Matrix: Groundwater
Lab ID: 17E0123-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 0.200	0.200		ug/L		05/15/17 22:07	B7E0169	AMP
Dinoseb	< 0.200	0.200		ug/L		05/15/17 22:07	B7E0169	AMP
Picloram	< 0.200	0.200		ug/L		05/15/17 22:07	B7E0169	AMP
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 103%*	*Limits: 37-152*	*05/15/17 22:07*	*B7E0169*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/08/17 17:46	B7E0345	FP1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/08/17 17:46	B7E0345	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Benzene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Chlorobenzene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Ethylbenzene	< 2.00	2.00		ug/L		05/08/17 17:46	B7E0345	FP1
Methyl tert-butyl ether	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Dichloromethane	< 2.00	2.00		ug/L		05/08/17 17:46	B7E0345	FP1
Styrene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Tetrachloroethene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Toluene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Trichloroethene	< 4.00	4.00		ug/L		05/08/17 17:46	B7E0345	FP1
Vinyl chloride	< 10.0	10.0		ug/L		05/08/17 17:46	B7E0345	FP1
Xylenes, Total	< 20.0	20.0		ug/L		05/08/17 17:46	B7E0345	FP1
Surrogate: Dibromofluoromethane				*Recovery: 102%*	*Limits: 84-137*	*05/08/17 17:46*	*B7E0345*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 87-127*	*05/08/17 17:46*	*B7E0345*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 101%*	*Limits: 80-116*	*05/08/17 17:46*	*B7E0345*	*FP1*
Surrogate: Toluene-d8				*Recovery: 102%*	*Limits: 85-112*	*05/08/17 17:46*	*B7E0345*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 106%*	*Limits: 90-119*	*05/08/17 17:46*	*B7E0345*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 107%*	*Limits: 87-138*	*05/08/17 17:46*	*B7E0345*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.213	0.213		ug/L		05/20/17 04:14	B7E1170	LP
Ethylene Dibromide	< 0.213	0.213		ug/L		05/20/17 04:14	B7E1170	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-4
Report Date: 07/10/2017
Collection Date: 05/05/2017 09:30
Matrix: Groundwater
Lab ID: 17E0123-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 8.00	8.00		ug/L		06/23/17 11:26	B7F0495	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 68%*	*Limits: 70-130*	*06/23/17 11:26*	*B7F0495*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/16/17 08:12	B7E0284	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 79%*	*Limits: 20-200*	*05/16/17 08:12*	*B7E0284*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.05	4.05		ug/L		05/11/17 15:23	B7E0396	JN1
o-Dichlorobenzene	< 2.02	2.02		ug/L		05/11/17 15:23	B7E0396	JN1
p-Dichlorobenzene	< 2.02	2.02		ug/L		05/11/17 15:23	B7E0396	JN1
Benzo(a)pyrene	< 4.05	4.05		ug/L		05/11/17 15:23	B7E0396	JN1
Di(2-ethylhexyl)phthalate	< 25.3	25.3		ug/L		05/11/17 15:23	B7E0396	JN1
Hexachlorocyclopentadiene	< 10.1	10.1		ug/L		05/11/17 15:23	B7E0396	JN1
Pentachlorophenol	< 50.6	50.6		ug/L		05/11/17 15:23	B7E0396	JN1
Surrogate: 2-Fluorophenol				*Recovery: 52%*	*Limits: 4-108*	*05/11/17 15:23*	*B7E0396*	*JN1*
Surrogate: Phenol-d5				*Recovery: 41%*	*Limits: 1-101*	*05/11/17 15:23*	*B7E0396*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 69%*	*Limits: 23-119*	*05/11/17 15:23*	*B7E0396*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 77%*	*Limits: 28-124*	*05/11/17 15:23*	*B7E0396*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 69%*	*Limits: 11-102*	*05/11/17 15:23*	*B7E0396*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 113%*	*Limits: 79-147*	*05/11/17 15:23*	*B7E0396*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.63**	0.16	pCi/L		06/01/17 00:00	17E0123-05	UL
Radium-228	**0.73**	0.57	pCi/L		06/01/17 00:00	17E0123-05	UL

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-5
Report Date: 07/10/2017
Collection Date: 05/05/2017 10:40
Matrix: Groundwater
Lab ID: 17E0123-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**616**			uS/cm	05/05/17 10:40	B7F0066	CL1
Method: SM2550-B							
Temperature	**54.8**			°F	05/05/17 10:40	B7F0066	CL1
Method: SM4500-H							
pH	**7.36**	0.05		pH Units	05/05/17 10:40	B7F0066	CL1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	05/09/17 19:49	B7E0315	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Arsenic	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Barium	**80.7**	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Beryllium	< 2.50	2.50		ug/L	05/08/17 14:44	B7E0267	AG
Boron	**44.3**	12.5		ug/L	05/08/17 14:44	B7E0267	AG
Cadmium	< 2.50	2.50		ug/L	05/08/17 14:44	B7E0267	AG
Calcium	**83.5**	1.25		mg/L	05/08/17 15:28	B7E0267	AG
Chromium	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Cobalt	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Copper	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Iron	**7630**	125		ug/L	05/08/17 14:44	B7E0267	AG
Lead	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Manganese	**154**	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Molybdenum	< 0.0250	0.0250		mg/L	05/08/17 14:44	B7E0267	AG
Nickel	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Selenium	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Silver	< 2.50	2.50		ug/L	05/08/17 14:44	B7E0267	AG
Thallium	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Zinc	< 25.0	25.0		ug/L	05/08/17 14:44	B7E0267	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	05/10/17 14:44	B7E0356	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	05/05/17 22:06	B7E0194	NB1
Fluoride	< 0.500	0.500		mg/L	05/05/17 22:06	B7E0194	NB1
Nitrogen, Nitrate	**1.53**	0.500		mg/L	05/05/17 22:06	B7E0194	NB1
Sulfate	**54.8**	5.00		mg/L	05/05/17 22:06	B7E0194	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-5
Report Date: 07/10/2017
Collection Date: 05/05/2017 10:40
Matrix: Groundwater
Lab ID: 17E0123-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units			Date/Time Analyzed	Batch	Analyst
Wet Chemistry									
Method: SM2540C									
Total Dissolved Solids (Residue, Filterable)	**426**	10.0		mg/L			05/10/17 09:30	B7E0404	CP1
Method: SW9014 by Aquachem / SW9010B									
Cyanide	< 0.010	0.010		mg/L			05/09/17 12:28	B7E0313	KJ1
Method: SW9065 by Aquachem									
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L			05/08/17 13:37	B7E0260	KJ1
Organochlorine Pesticides by GC/ECD									
Method: SW8081B / SW3510									
Alachlor	< 0.525	0.525		ug/L			05/16/17 12:47	B7E0338	MNN
Atrazine	< 0.525	0.525		ug/L			05/16/17 12:47	B7E0338	MNN
Chlordane	< 0.525	0.525		ug/L			05/16/17 12:47	B7E0338	MNN
Endrin	< 0.0525	0.0525		ug/L			05/16/17 12:47	B7E0338	MNN
Lindane	< 0.0525	0.0525		ug/L			05/16/17 12:47	B7E0338	MNN
Heptachlor	< 0.0525	0.0525		ug/L			05/16/17 12:47	B7E0338	MNN
Heptachlor epoxide	< 0.0525	0.0525		ug/L			05/16/17 12:47	B7E0338	MNN
Methoxychlor	< 0.0525	0.0525		ug/L			05/16/17 12:47	B7E0338	MNN
Simazine	< 0.525	0.525		ug/L			05/16/17 12:47	B7E0338	MNN
Toxaphene	< 2.10	2.10		ug/L			05/16/17 12:47	B7E0338	MNN
Surrogate: Decachlorobiphenyl				*Recovery: 108%*	*Limits: 30-109*		*05/16/17 12:47*	*B7E0338*	*MNN*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 51%*	*Limits: 21-124*		*05/16/17 12:47*	*B7E0338*	*MNN*
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Method: SW8082A / SW3510									
Aroclor 1016	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Aroclor 1221	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Aroclor 1232	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Aroclor 1242	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Aroclor 1248	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Aroclor 1254	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Aroclor 1260	< 0.315	0.315		ug/L			05/11/17 01:56	B7E0339	CS2
Total PCB	< 1.05	1.05		ug/L			05/11/17 01:56	B7E0339	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 84%*	*Limits: 40-135*		*05/11/17 01:56*	*B7E0339*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 44%*	*Limits: 13-133*		*05/11/17 01:56*	*B7E0339*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)									
Method: E531.1									
Aldicarb	< 2.00	2.00		ug/L			05/24/17 10:21	B7E0960	AMP/MNN
Carbofuran	< 2.00	2.00		ug/L			05/24/17 10:21	B7E0960	AMP/MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)									
Method: SW8321B / SW3510									
2,4,5-TP (Silvex)	< 0.198	0.198		ug/L			05/15/17 22:48	B7E0169	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-5
Report Date: 07/10/2017
Collection Date: 05/05/2017 10:40
Matrix: Groundwater
Lab ID: 17E0123-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 0.198	0.198		ug/L		05/15/17 22:48	B7E0169	AMP
Dinoseb	< 0.198	0.198		ug/L		05/15/17 22:48	B7E0169	AMP
Picloram	< 0.198	0.198		ug/L		05/15/17 22:48	B7E0169	AMP
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 59%*	*Limits: 37-152*	*05/15/17 22:48*	*B7E0169*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
1,1-Dichloroethene	< 2.00	2.00		ug/L		05/08/17 18:19	B7E0345	FP1
1,2-Dichloroethane	< 2.00	2.00		ug/L		05/08/17 18:19	B7E0345	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Benzene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Chlorobenzene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Ethylbenzene	< 2.00	2.00		ug/L		05/08/17 18:19	B7E0345	FP1
Methyl tert-butyl ether	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Dichloromethane	< 2.00	2.00		ug/L		05/08/17 18:19	B7E0345	FP1
Styrene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Tetrachloroethene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Toluene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Trichloroethene	< 4.00	4.00		ug/L		05/08/17 18:19	B7E0345	FP1
Vinyl chloride	< 10.0	10.0		ug/L		05/08/17 18:19	B7E0345	FP1
Xylenes, Total	< 20.0	20.0		ug/L		05/08/17 18:19	B7E0345	FP1
Surrogate: Dibromofluoromethane				*Recovery: 104%*	*Limits: 84-137*	*05/08/17 18:19*	*B7E0345*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 110%*	*Limits: 87-127*	*05/08/17 18:19*	*B7E0345*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*05/08/17 18:19*	*B7E0345*	*FP1*
Surrogate: Toluene-d8				*Recovery: 103%*	*Limits: 85-112*	*05/08/17 18:19*	*B7E0345*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 111%*	*Limits: 90-119*	*05/08/17 18:19*	*B7E0345*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 108%*	*Limits: 87-138*	*05/08/17 18:19*	*B7E0345*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.213	0.213		ug/L		05/20/17 04:45	B7E1170	LP
Ethylene Dibromide	< 0.213	0.213		ug/L		05/20/17 04:45	B7E1170	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Client Sample ID: AP-5
Report Date: 07/10/2017
Collection Date: 05/05/2017 10:40
Matrix: Groundwater
Lab ID: 17E0123-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 8.00	8.00		ug/L		06/23/17 12:03	B7F0495	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 96%*	*Limits: 70-130*	*06/23/17 12:03*	*B7F0495*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 31.0	31.0		ug/L		05/16/17 08:42	B7E0284	HHE
Surrogate: 2,4,6-Tribromophenol				*Recovery: 82%*	*Limits: 20-200*	*05/16/17 08:42*	*B7E0284*	*HHE*
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.12	4.12		ug/L		05/11/17 15:56	B7E0396	JN1
o-Dichlorobenzene	< 2.06	2.06		ug/L		05/11/17 15:56	B7E0396	JN1
p-Dichlorobenzene	< 2.06	2.06		ug/L		05/11/17 15:56	B7E0396	JN1
Benzo(a)pyrene	< 4.12	4.12		ug/L		05/11/17 15:56	B7E0396	JN1
Di(2-ethylhexyl)phthalate	< 25.8	25.8		ug/L		05/11/17 15:56	B7E0396	JN1
Hexachlorocyclopentadiene	< 10.3	10.3		ug/L		05/11/17 15:56	B7E0396	JN1
Pentachlorophenol	< 51.5	51.5		ug/L		05/11/17 15:56	B7E0396	JN1
Surrogate: 2-Fluorophenol				*Recovery: 38%*	*Limits: 4-108*	*05/11/17 15:56*	*B7E0396*	*JN1*
Surrogate: Phenol-d5				*Recovery: 26%*	*Limits: 1-101*	*05/11/17 15:56*	*B7E0396*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 56%*	*Limits: 23-119*	*05/11/17 15:56*	*B7E0396*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 67%*	*Limits: 28-124*	*05/11/17 15:56*	*B7E0396*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 50%*	*Limits: 11-102*	*05/11/17 15:56*	*B7E0396*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 115%*	*Limits: 79-147*	*05/11/17 15:56*	*B7E0396*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.55**	0.15	pCi/L		06/01/17 00:00	17E0123-06	UL
Radium-228	**1.2**	0.53	pCi/L		06/01/17 00:00	17E0123-06	UL

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Dates Report

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17E0123-01	AW-3	05/31/17	Groundwater	Radiation Testing, Subcontracted		06/15/17 00:00	06/23/17 00:00	17E0123-01	
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/31/17 14:44	06/01/17 05:49	B7E1219	S7F0035
				Sulfate (SO4), Anions by Ion Chromatography		05/31/17 14:44	06/01/17 05:49		
				Fluoride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 05:49		
				Chloride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 05:49		
				Cyanide, Total		06/01/17 08:30	06/01/17 11:55	B7F0011	S7F0007
				Phenol, Total		06/01/17 09:50	06/01/17 13:58	B7F0021	S7F0009
				Temperature in F, Field		05/31/17 09:35	05/31/17 09:35	B7F0066	
				pH, Tested On Site		05/31/17 09:35	05/31/17 09:35		
				Conductance, Field		05/31/17 09:35	05/31/17 09:35		
				Antimony, Total ICP-MS		06/05/17 10:19	06/06/17 14:26	B7F0136	S7F0133
				Zinc, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Selenium, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Lead, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Nickel, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Molybdenum, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Manganese, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Iron, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Chromium, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Cobalt, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Cadmium, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Calcium, Total ICP-MS		06/05/17 10:19	06/06/17 16:35		
				Beryllium, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Barium, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Boron, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Arsenic, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Copper, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Silver, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Thallium, Total ICP-MS		06/05/17 10:19	06/06/17 14:26		
				Volatile Organic Compounds by GC/MS		06/05/17 08:07	06/05/17 15:09	B7F0165	S7F0106
				Lithium, Total ICP-AES		06/06/17 08:39	06/07/17 22:32	B7F0170	S7F0167
				EPA 548.1 Endothall		06/06/17 13:26	06/06/17 16:25	B7F0200	S7F0153
				Organochlorine Pesticides by GC/ECD		06/06/17 14:20	06/13/17 20:58	B7F0206	S7F0273
				Polychlorinated Biphenyls by GC/ECD		06/06/17 14:20	06/09/17 22:59	B7F0207	S7F0227
				Solids, Total Dissolved (TDS)		06/06/17 13:00	06/06/17 13:00	B7F0211	
				Herbicides by HPLC		06/06/17 16:25	06/12/17 08:45	B7F0215	S7F0254
				EPA 531.1 Carbamates		06/07/17 06:30	06/07/17 11:58	B7F0219	S7F0134
				Semivolatile Organic Compounds by GC/MS		06/07/17 15:26	06/10/17 11:06	B7F0262	S7F0219
				Mercury, Total CCVA		06/12/17 07:50	06/12/17 14:02	B7F0375	S7F0243
				EPA 552.1 Dalapon		06/13/17 08:00	06/15/17 19:17	B7F0495	S7F0378
				EPA 504.1 DBCP/EDB		06/13/17 08:00	06/13/17 21:58	B7F0518	S7F0303

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17E0123-02	AP-1	05/31/17	Groundwater	Radiation Testing, Subcontracted		06/15/17 00:00	06/23/17 00:00	17E0123-02	
				Chloride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 08:12	B7E1219	S7F0035
				Fluoride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 08:12		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/31/17 14:44	06/01/17 08:12		
				Cyanide, Total		06/01/17 08:30	06/01/17 11:55	B7F0011	S7F0007
				Phenol, Total		06/01/17 09:50	06/01/17 13:58	B7F0021	S7F0009
				pH, Tested On Site		05/31/17 08:15	05/31/17 08:15	B7F0066	
				Conductance, Field		05/31/17 08:15	05/31/17 08:15		
				Temperature in F, Field		05/31/17 08:15	05/31/17 08:15		
				Copper, Total ICP-MS		06/05/17 10:19	06/06/17 14:28	B7F0136	S7F0133
				Zinc, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Thallium, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Selenium, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Antimony, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Lead, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Nickel, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Molybdenum, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Iron, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Arsenic, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Manganese, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Silver, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Chromium, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Boron, Total ICP-MS		06/05/17 10:19	06/06/17 16:37		
				Barium, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Beryllium, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Calcium, Total ICP-MS		06/05/17 10:19	06/06/17 16:37		
				Cadmium, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Cobalt, Total ICP-MS		06/05/17 10:19	06/06/17 14:28		
				Volatile Organic Compounds by GC/MS		06/05/17 08:07	06/05/17 15:42	B7F0165	S7F0106
				Lithium, Total ICP-AES		06/06/17 08:39	06/07/17 22:36	B7F0170	S7F0167
				EPA 548.1 Endothall		06/06/17 13:26	06/06/17 17:25	B7F0200	S7F0153
				Organochlorine Pesticides by GC/ECD		06/06/17 14:20	06/13/17 21:44	B7F0206	S7F0273
				Polychlorinated Biphenyls by GC/ECD		06/06/17 14:20	06/09/17 23:23	B7F0207	S7F0227
				Solids, Total Dissolved (TDS)		06/06/17 13:00	06/06/17 13:00	B7F0211	
				Herbicides by HPLC		06/06/17 16:25	06/12/17 09:24	B7F0215	S7F0254
				EPA 531.1 Carbamates		06/07/17 06:30	06/07/17 12:30	B7F0219	S7F0134
				Sulfate (SO4), Anions by Ion Chromatography		06/07/17 08:24	06/07/17 19:49	B7F0230	S7F0185
				Semivolatile Organic Compounds by GC/MS		06/07/17 15:26	06/10/17 11:47	B7F0262	S7F0219
				Mercury, Total CCVA		06/12/17 07:50	06/12/17 14:17	B7F0375	S7F0243
				EPA 552.1 Dalapon		06/13/17 08:00	06/19/17 18:12	B7F0495	S7F0396
				EPA 504.1 DBCP/EDB		06/13/17 08:00	06/13/17 22:29	B7F0518	S7F0303

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17E0123-03	AP-2	05/31/17	Groundwater	Radiation Testing, Subcontracted		06/15/17 00:00	06/23/17 00:00	17E0123-03	
				Chloride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 08:41	B7E1219	S7F0035
				Fluoride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 08:41		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/31/17 14:44	06/01/17 08:41		
				Cyanide, Total		06/01/17 08:30	06/01/17 11:55	B7F0011	S7F0007
				Conductance, Field		05/31/17 07:50	05/31/17 07:50	B7F0066	
				Temperature in F, Field		05/31/17 07:50	05/31/17 07:50		
				pH, Tested On Site		05/31/17 07:50	05/31/17 07:50		
				Phenol, Total		06/02/17 09:40	06/02/17 14:55	B7F0071	S7F0044
				Cobalt, Total ICP-MS		06/05/17 10:19	06/06/17 14:30	B7F0136	S7F0133
				Thallium, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Selenium, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Antimony, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Lead, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Nickel, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Molybdenum, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Zinc, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Copper, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Iron, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Cadmium, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Calcium, Total ICP-MS		06/05/17 10:19	06/06/17 16:39		
				Beryllium, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Barium, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Boron, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Arsenic, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Silver, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Manganese, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Chromium, Total ICP-MS		06/05/17 10:19	06/06/17 14:30		
				Volatile Organic Compounds by GC/MS		06/05/17 08:07	06/05/17 16:14	B7F0165	S7F0106
				Lithium, Total ICP-AES		06/06/17 08:39	06/07/17 22:40	B7F0170	S7F0167
				EPA 548.1 Endothall		06/06/17 13:26	06/06/17 18:25	B7F0200	S7F0153
				Organochlorine Pesticides by GC/ECD		06/06/17 14:20	06/13/17 22:31	B7F0206	S7F0273
				Polychlorinated Biphenyls by GC/ECD		06/06/17 14:20	06/09/17 23:48	B7F0207	S7F0227
				Solids, Total Dissolved (TDS)		06/06/17 13:00	06/06/17 13:00	B7F0211	
				Herbicides by HPLC		06/06/17 16:25	06/12/17 10:03	B7F0215	S7F0254
				EPA 531.1 Carbamates		06/07/17 06:30	06/07/17 13:05	B7F0219	S7F0134
				Sulfate (SO4), Anions by Ion Chromatography		06/07/17 08:24	06/07/17 20:17	B7F0230	S7F0185
				Semivolatile Organic Compounds by GC/MS		06/07/17 15:26	06/10/17 12:27	B7F0262	S7F0219
				Mercury, Total CCVA		06/12/17 07:50	06/12/17 14:19	B7F0375	S7F0243
				EPA 552.1 Dalapon		06/13/17 08:00	06/19/17 21:52	B7F0495	S7F0396
				EPA 504.1 DBCP/EDB		06/13/17 08:00	06/14/17 12:57	B7F0518	S7F0303

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17E0123-04	AP-3	05/31/17	Groundwater	Radiation Testing, Subcontracted		06/15/17 00:00	06/23/17 00:00	17E0123-04	
				Fluoride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 09:10	B7E1219	S7F0035
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/31/17 14:44	06/01/17 09:10		
				Chloride, Anions by Ion Chromatography		05/31/17 14:44	06/01/17 09:10		
				Cyanide, Total		06/01/17 08:30	06/01/17 11:55	B7F0011	S7F0007
				Phenol, Total		06/01/17 09:50	06/01/17 13:58	B7F0021	S7F0009
				Temperature in F, Field		05/31/17 08:45	05/31/17 08:45	B7F0066	
				pH, Tested On Site		05/31/17 08:45	05/31/17 08:45		
				Conductance, Field		05/31/17 08:45	05/31/17 08:45		
				Barium, Total ICP-MS		06/05/17 10:19	06/06/17 16:26	B7F0136	S7F0133
				Manganese, Total ICP-MS		06/05/17 10:19	06/06/17 16:40		
				Zinc, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Thallium, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Selenium, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Antimony, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Lead, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Nickel, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Boron, Total ICP-MS		06/05/17 10:19	06/06/17 16:40		
				Molybdenum, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Iron, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Copper, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Chromium, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Cobalt, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Cadmium, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Arsenic, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Silver, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Beryllium, Total ICP-MS		06/05/17 10:19	06/06/17 16:26		
				Calcium, Total ICP-MS		06/05/17 10:19	06/06/17 16:40		
				Volatile Organic Compounds by GC/MS		06/05/17 08:07	06/05/17 16:47	B7F0165	S7F0106
				Lithium, Total ICP-AES		06/06/17 08:39	06/07/17 23:01	B7F0170	S7F0167
				EPA 548.1 Endothall		06/06/17 13:26	06/06/17 18:55	B7F0200	S7F0153
				Organochlorine Pesticides by GC/ECD		06/06/17 14:20	06/21/17 01:51	B7F0206	S7F0418
				Polychlorinated Biphenyls by GC/ECD		06/06/17 14:20	06/10/17 00:12	B7F0207	S7F0227
				Solids, Total Dissolved (TDS)		06/06/17 13:00	06/06/17 13:00	B7F0211	
				Herbicides by HPLC		06/06/17 16:25	06/12/17 10:43	B7F0215	S7F0254
				EPA 531.1 Carbamates		06/07/17 06:30	06/07/17 13:48	B7F0219	S7F0134
				Sulfate (SO4), Anions by Ion Chromatography		06/07/17 08:24	06/07/17 20:46	B7F0230	S7F0185
				Semivolatile Organic Compounds by GC/MS		06/07/17 15:26	06/10/17 13:08	B7F0262	S7F0219
				Mercury, Total CCVA		06/12/17 07:50	06/12/17 14:21	B7F0375	S7F0243
				EPA 552.1 Dalapon		06/13/17 08:00	06/19/17 22:28	B7F0495	S7F0396
				EPA 504.1 DBCP/EDB		06/13/17 08:00	06/13/17 23:32	B7F0518	S7F0303

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17E0123-05	AP-4	05/05/17	Groundwater	Radiation Testing, Subcontracted		06/01/17 00:00	06/01/17 00:00	17E0123-05	
				Herbicides by HPLC		05/05/17 12:37	05/15/17 22:07	B7E0169	S7E0250
				Fluoride, Anions by Ion Chromatography		05/05/17 12:10	05/05/17 20:11	B7E0194	S7E0117
				Sulfate (SO4), Anions by Ion Chromatography		05/05/17 12:10	05/05/17 20:11		
				Chloride, Anions by Ion Chromatography		05/05/17 12:10	05/05/17 20:11		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/05/17 12:10	05/05/17 20:11		
				Phenol, Total		05/08/17 10:00	05/08/17 13:37	B7E0260	S7E0130
				Iron, Total ICP-MS		05/08/17 11:29	05/08/17 14:42	B7E0267	S7E0139
				Manganese, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Molybdenum, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Nickel, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Lead, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Selenium, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Thallium, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Copper, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Barium, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Zinc, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Antimony, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Cobalt, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Cadmium, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Beryllium, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Boron, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Arsenic, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Silver, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Chromium, Total ICP-MS		05/08/17 11:29	05/08/17 14:42		
				Calcium, Total ICP-MS		05/08/17 11:29	05/08/17 15:26		
				EPA 548.1 Endothall		05/05/17 13:43	05/16/17 08:12	B7E0284	S7E0281
				Cyanide, Total		05/09/17 08:30	05/09/17 12:28	B7E0313	S7E0148
				Lithium, Total ICP-AES		05/09/17 09:04	05/09/17 19:45	B7E0315	S7E0163
				Organochlorine Pesticides by GC/ECD		05/10/17 10:30	05/16/17 12:00	B7E0338	S7E0300
				Polychlorinated Biphenyls by GC/ECD		05/10/17 10:30	05/11/17 01:30	B7E0339	S7E0190
				Volatile Organic Compounds by GC/MS		05/08/17 10:01	05/08/17 17:46	B7E0345	S7E0156
				Mercury, Total CCVA		05/10/17 07:30	05/10/17 14:42	B7E0356	S7E0174
				Semivolatile Organic Compounds by GC/MS		05/10/17 14:03	05/11/17 15:23	B7E0396	S7E0221
				Solids, Total Dissolved (TDS)		05/10/17 09:30	05/10/17 09:30	B7E0404	
				EPA 531.1 Carbamates		05/24/17 07:00	05/24/17 10:53	B7E0960	S7F0087
				EPA 504.1 DBCP/EDB		05/19/17 08:00	05/20/17 04:14	B7E1170	S7E0538
				Temperature in F, Field		05/05/17 09:30	05/05/17 09:30	B7F0066	
				Conductance, Field		05/05/17 09:30	05/05/17 09:30		
				pH, Tested On Site		05/05/17 09:30	05/05/17 09:30		
				EPA 552.1 Dalapon		06/13/17 08:00	06/23/17 11:26	B7F0495	S7F0472

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17E0123-06	AP-5	05/05/17	Groundwater	Radiation Testing, Subcontracted		06/01/17 00:00	06/01/17 00:00	17E0123-06	
				Herbicides by HPLC		05/05/17 12:37	05/15/17 22:48	B7E0169	S7E0250
				Nitrogen, Nitrate (NO3) as N, Anions by IC		05/05/17 12:10	05/05/17 22:06	B7E0194	S7E0117
				Fluoride, Anions by Ion Chromatography		05/05/17 12:10	05/05/17 22:06		
				Sulfate (SO4), Anions by Ion Chromatography		05/05/17 12:10	05/05/17 22:06		
				Chloride, Anions by Ion Chromatography		05/05/17 12:10	05/05/17 22:06		
				Phenol, Total		05/08/17 10:00	05/08/17 13:37	B7E0260	S7E0130
				Nickel, Total ICP-MS		05/08/17 11:29	05/08/17 14:44	B7E0267	S7E0139
				Copper, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Manganese, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Molybdenum, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Lead, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Antimony, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Selenium, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Zinc, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Chromium, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Thallium, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Cadmium, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Calcium, Total ICP-MS		05/08/17 11:29	05/08/17 15:28		
				Beryllium, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Barium, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Boron, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Arsenic, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Silver, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Cobalt, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				Iron, Total ICP-MS		05/08/17 11:29	05/08/17 14:44		
				EPA 548.1 Endothall		05/05/17 13:43	05/16/17 08:42	B7E0284	S7E0281
				Cyanide, Total		05/09/17 08:30	05/09/17 12:28	B7E0313	S7E0148
				Lithium, Total ICP-AES		05/09/17 09:04	05/09/17 19:49	B7E0315	S7E0163
				Organochlorine Pesticides by GC/ECD		05/10/17 10:30	05/16/17 12:47	B7E0338	S7E0300
				Polychlorinated Biphenyls by GC/ECD		05/10/17 10:30	05/11/17 01:56	B7E0339	S7E0190
				Volatile Organic Compounds by GC/MS		05/08/17 10:01	05/08/17 18:19	B7E0345	S7E0156
				Mercury, Total CCVA		05/10/17 07:30	05/10/17 14:44	B7E0356	S7E0174
				Semivolatile Organic Compounds by GC/MS		05/10/17 14:03	05/11/17 15:56	B7E0396	S7E0221
				Solids, Total Dissolved (TDS)		05/10/17 09:30	05/10/17 09:30	B7E0404	
				EPA 531.1 Carbamates		05/24/17 07:00	05/24/17 10:21	B7E0960	S7F0087
				EPA 504.1 DBCP/EDB		05/19/17 08:00	05/20/17 04:45	B7E1170	S7E0538
				pH, Tested On Site		05/05/17 10:40	05/05/17 10:40	B7F0066	
				Temperature in F, Field		05/05/17 10:40	05/05/17 10:40		
				Conductance, Field		05/05/17 10:40	05/05/17 10:40		
				EPA 552.1 Dalapon		06/13/17 08:00	06/23/17 12:03	B7F0495	S7F0472

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Quality Control

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0315 - SW3015										
Blank (B7E0315-BLK1)				*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 18:15*			
Lithium	< 0.0500	0.0500	mg/L							
LCS (B7E0315-BS2)				*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 18:40*			
Lithium	1.55	0.0500	mg/L	0.6250		248	80-120			S
Duplicate (B7E0315-DUP2)			**Source: 17E0277-01RE2**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:34*			
Lithium	< 33.6	100	mg/L		ND				10	
Serial Dilution (B7E0315-DUP3)			**Source: 17E0277-01RE3**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 21:03*			
Lithium	2.09	1.00	mg/L		2.02			3.43	10	
MRL Check (B7E0315-MRL2)				*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 18:48*			
Lithium	0.0780	0.0500	mg/L	0.03125		250	0-200			
Matrix Spike (B7E0315-MS4)			**Source: 17E0277-01RE2**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:05*			
Lithium	8.43	2.00	mg/L	2.500	2.04	256	75-125			S
Matrix Spike (B7E0315-MS6)			**Source: 17E0277-01RE3**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:51*			
Lithium	8.38	0.200	mg/L	2.500	2.02	254	75-125			S
Matrix Spike Dup (B7E0315-MSD4)			**Source: 17E0277-01RE2**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:09*			
Lithium	8.94	2.00	mg/L	2.500	2.04	276	75-125	5.82	20	S
Matrix Spike Dup (B7E0315-MSD6)			**Source: 17E0277-01RE3**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:55*			
Lithium	8.57	0.200	mg/L	2.500	2.02	262	75-125	2.30	20	S
Post Spike (B7E0315-PS2)			**Source: 17E0277-01RE2**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:30*			
Lithium	28.1	2.00	mg/L	25.00	2.04	104	80-120			
Post Spike (B7E0315-PS3)			**Source: 17E0277-01RE3**	*Prepared: 05/09/2017 09:04*			*Analyzed: 05/09/2017 20:59*			
Lithium	4.81	0.222	mg/L	2.778	2.02	101	80-120			
Batch: B7F0170 - SW3015										
Blank (B7F0170-BLK1)				*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 22:20*			
Lithium	< 0.0500	0.0500	mg/L							
LCS (B7F0170-BS1)				*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 22:24*			
Lithium	0.802	0.0500	mg/L	0.6250		128	80-120			S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-AES

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0170 - SW3015 *(Continued)*										
Serial Dilution (B7F0170-DUP1)		**Source: 17E0123-04**		*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 23:17*			
Lithium	< 0.0840	0.250	mg/L		ND				10	
MRL Check (B7F0170-MRL1)				*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 22:28*			
Lithium	0.0439	0.0500	mg/L	0.06250		70.2	0-200			
Matrix Spike (B7F0170-MS1)		**Source: 17E0123-04**		*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 23:05*			
Lithium	0.769	0.0500	mg/L	0.6250	ND	123	75-125			
Matrix Spike Dup (B7F0170-MSD1)		**Source: 17E0123-04**		*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 23:09*			
Lithium	0.778	0.0500	mg/L	0.6250	ND	124	75-125	1.13	20	
Post Spike (B7F0170-PS1)		**Source: 17E0123-04**		*Prepared: 06/06/2017 08:39*			*Analyzed: 06/07/2017 23:13*			
Lithium	0.711	0.0556	mg/L	0.6944	ND	102	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0267 - SW3015										
Blank (B7E0267-BLK1)				*Prepared: 05/08/2017 11:29 Analyzed: 05/08/2017 14:06*						
Antimony	< 25.0	25.0	ug/L							
Arsenic	< 25.0	25.0	ug/L							
Barium	< 25.0	25.0	ug/L							
Beryllium	< 2.50	2.50	ug/L							
Boron	< 12.5	12.5	ug/L							
Cadmium	< 2.50	2.50	ug/L							
Calcium	< 0.125	0.125	mg/L							
Chromium	< 25.0	25.0	ug/L							
Cobalt	< 25.0	25.0	ug/L							
Copper	< 25.0	25.0	ug/L							
Iron	< 125	125	ug/L							
Lead	< 25.0	25.0	ug/L							
Manganese	< 25.0	25.0	ug/L							
Molybdenum	< 0.0250	0.0250	mg/L							
Nickel	< 25.0	25.0	ug/L							
Selenium	< 25.0	25.0	ug/L							
Silver	< 2.50	2.50	ug/L							
Thallium	< 25.0	25.0	ug/L							
Zinc	< 25.0	25.0	ug/L							
LCS (B7E0267-BS1)				*Prepared: 05/08/2017 11:29 Analyzed: 05/08/2017 14:08*						
Antimony	1220	25.0	ug/L	1250		97.9	85-117			
Arsenic	1170	25.0	ug/L	1250		93.6	84-116			
Barium	1300	25.0	ug/L	1250		104	87.5-114			
Beryllium	120	2.50	ug/L	125.0		96.1	83-121			
Boron	627	12.5	ug/L	625.0		100	73-130			
Cadmium	116	2.50	ug/L	125.0		92.5	85-115			
Calcium	6.39	0.125	mg/L	6.250		102	87-118			
Chromium	1220	25.0	ug/L	1250		97.9	85.8-113			
Cobalt	1220	25.0	ug/L	1250		97.5	86-115			
Copper	1200	25.0	ug/L	1250		95.8	86.2-113			
Iron	2450	125	ug/L	2500		98.1	87-113			
Lead	1240	25.0	ug/L	1250		98.8	88.7-114			
Manganese	1320	25.0	ug/L	1250		106	87-115			
Molybdenum	1.29	0.0250	mg/L	1.250		103	83-115			
Nickel	1200	25.0	ug/L	1250		96.4	85-114			
Selenium	1190	25.0	ug/L	1250		95.2	80-120			
Silver	123	2.50	ug/L	125.0		98.1	88.9-114			
Thallium	1270	25.0	ug/L	1250		101	82-116			
Zinc	1140	25.0	ug/L	1250		91.4	85-108			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual

Batch: B7E0267 - SW3015 *(Continued)*

Serial Dilution (B7E0267-DUP1) **Source: 17E0121-01** *Prepared: 05/08/2017 11:29 Analyzed: 05/08/2017 14:18*

Antimony	< 10.0	125	ug/L		ND				20	
Arsenic	< 15.0	125	ug/L		ND				20	
Barium	< 17.5	125	ug/L		ND				20	
Beryllium	< 1.50	12.5	ug/L		ND				20	
Boron	97.8	62.5	ug/L		89.1			9.37	20	
Cadmium	< 2.00	12.5	ug/L		ND				20	
Calcium	169	0.625	mg/L		160			5.27	20	
Chromium	< 2.50	125	ug/L		ND				20	
Cobalt	< 5.00	125	ug/L		ND				20	
Copper	< 20.0	125	ug/L		ND				20	
Iron	< 250	625	ug/L		ND				20	
Lead	< 2.00	125	ug/L		ND				20	
Manganese	441	125	ug/L		407			7.96	20	
Molybdenum	< 0.00500	0.125	mg/L		ND				20	
Nickel	< 25.0	125	ug/L		ND				20	
Selenium	< 5.00	125	ug/L		ND				20	
Silver	< 2.00	12.5	ug/L		ND				20	
Thallium	< 2.00	125	ug/L		ND				20	
Zinc	< 25.0	125	ug/L		ND				20	

MRL Check (B7E0267-MRL1) *Prepared: 05/08/2017 11:29 Analyzed: 05/08/2017 14:10*

Antimony	37.4	25.0	ug/L	31.25	120	70-130
Arsenic	31.6	25.0	ug/L	31.25	101	70-130
Barium	34.7	25.0	ug/L	31.25	111	70-130
Beryllium	3.18	2.50	ug/L	3.125	102	70-130
Boron	18.3	12.5	ug/L	15.62	117	70-130
Cadmium	3.16	2.50	ug/L	3.125	101	70-130
Calcium	0.158	0.125	mg/L	0.1250	127	70-130
Chromium	32.2	25.0	ug/L	31.25	103	70-130
Cobalt	23.4	25.0	ug/L	25.00	93.7	70-130
Copper	31.9	25.0	ug/L	31.25	102	70-130
Iron	70.9	125	ug/L	62.50	113	70-130
Lead	31.7	25.0	ug/L	31.25	101	70-130
Manganese	33.6	25.0	ug/L	31.25	107	70-130
Molybdenum	0.0248	0.0250	mg/L	0.02500	99.4	70-130
Nickel	32.3	25.0	ug/L	31.25	103	70-130
Selenium	31.9	25.0	ug/L	31.25	102	70-130
Silver	3.15	2.50	ug/L	3.125	101	70-130
Thallium	32.3	25.0	ug/L	31.25	103	70-130
Zinc	31.5	25.0	ug/L	31.25	101	70-130

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0267 - SW3015 *(Continued)*										
Matrix Spike (B7E0267-MS1)	**Source: 17E0121-01**			*Prepared: 05/08/2017 11:29*		*Analyzed: 05/08/2017 14:13*				
Antimony	1290	25.0	ug/L	1250	ND	103	75-125			
Arsenic	1190	25.0	ug/L	1250	ND	94.8	75-125			
Barium	1330	25.0	ug/L	1250	12.0	105	75-125			
Beryllium	123	2.50	ug/L	125.0	ND	98.3	75-125			
Boron	716	12.5	ug/L	625.0	89.1	100	75-125			
Cadmium	111	2.50	ug/L	125.0	ND	88.4	75-125			
Calcium	170	0.125	mg/L	6.250	160	157	75-125			S
Chromium	1220	25.0	ug/L	1250	0.864	97.4	75-125			
Cobalt	1170	25.0	ug/L	1250	ND	93.8	75-125			
Copper	1120	25.0	ug/L	1250	ND	89.8	75-125			
Iron	2510	125	ug/L	2500	97.4	96.4	75-125			
Lead	1200	25.0	ug/L	1250	ND	95.9	75-125			
Manganese	1790	25.0	ug/L	1250	407	110	75-125			
Molybdenum	1.28	0.0250	mg/L	1.250	ND	102	75-125			
Nickel	1150	25.0	ug/L	1250	ND	91.7	75-125			
Selenium	1170	25.0	ug/L	1250	ND	93.9	75-125			
Silver	112	2.50	ug/L	125.0	ND	89.9	75-125			
Thallium	1310	25.0	ug/L	1250	ND	105	75-125			
Zinc	1120	25.0	ug/L	1250	ND	89.6	75-125			
Matrix Spike Dup (B7E0267-MSD1)	**Source: 17E0121-01**			*Prepared: 05/08/2017 11:29*		*Analyzed: 05/08/2017 14:15*				
Antimony	1280	25.0	ug/L	1250	ND	103	75-125	0.299	20	
Arsenic	1180	25.0	ug/L	1250	ND	94.6	75-125	0.219	20	
Barium	1350	25.0	ug/L	1250	12.0	107	75-125	1.21	20	
Beryllium	120	2.50	ug/L	125.0	ND	95.6	75-125	2.81	20	
Boron	706	12.5	ug/L	625.0	89.1	98.8	75-125	1.38	20	
Cadmium	113	2.50	ug/L	125.0	ND	90.1	75-125	1.90	20	
Calcium	168	0.125	mg/L	6.250	160	119	75-125	1.40	20	
Chromium	1210	25.0	ug/L	1250	0.864	96.6	75-125	0.870	20	
Cobalt	1160	25.0	ug/L	1250	ND	92.8	75-125	1.14	20	
Copper	1120	25.0	ug/L	1250	ND	89.2	75-125	0.607	20	
Iron	2500	125	ug/L	2500	97.4	96.1	75-125	0.234	20	
Lead	1200	25.0	ug/L	1250	ND	96.0	75-125	0.0732	20	
Manganese	1730	25.0	ug/L	1250	407	106	75-125	3.45	20	
Molybdenum	1.28	0.0250	mg/L	1.250	ND	102	75-125	0.0527	20	
Nickel	1140	25.0	ug/L	1250	ND	90.9	75-125	0.963	20	
Selenium	1160	25.0	ug/L	1250	ND	92.9	75-125	1.12	20	
Silver	115	2.50	ug/L	125.0	ND	91.9	75-125	2.26	20	
Thallium	1300	25.0	ug/L	1250	ND	104	75-125	1.06	20	
Zinc	1120	25.0	ug/L	1250	ND	89.3	75-125	0.343	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0267 - SW3015 *(Continued)*										
Post Spike (B7E0267-PS1)		**Source: 17E0121-01**		*Prepared: 05/08/2017 11:29*		*Analyzed: 05/08/2017 14:16*				
Antimony	309	25.0	ug/L	312.5	ND	98.8	80-120			
Arsenic	304	25.0	ug/L	312.5	ND	97.2	80-120			
Barium	323	25.0	ug/L	312.5	12.0	99.4	80-120			
Beryllium	147	2.50	ug/L	156.2	ND	93.9	80-120			
Boron	395	12.5	ug/L	312.5	89.1	98.0	80-120			
Cadmium	286	2.50	ug/L	312.5	ND	91.4	80-120			
Calcium	166	0.125	mg/L	1.562	160	386	80-120			S
Chromium	295	25.0	ug/L	312.5	0.864	94.3	80-120			
Cobalt	276	25.0	ug/L	312.5	ND	88.3	80-120			
Copper	280	25.0	ug/L	312.5	ND	89.5	80-120			
Iron	1640	125	ug/L	1562	97.4	98.4	80-120			
Lead	289	25.0	ug/L	312.5	ND	92.6	80-120			
Manganese	716	25.0	ug/L	312.5	407	98.6	80-120			
Molybdenum	0.288	0.0250	mg/L	0.3125	ND	92.0	80-120			
Nickel	281	25.0	ug/L	312.5	ND	89.9	80-120			
Selenium	294	25.0	ug/L	312.5	ND	94.1	80-120			
Silver	277	2.50	ug/L	312.5	ND	88.6	80-120			
Thallium	314	25.0	ug/L	312.5	ND	101	80-120			
Zinc	286	25.0	ug/L	312.5	ND	91.6	80-120			
Batch: B7F0136 - SW3015										
Blank (B7F0136-BLK1)				*Prepared: 06/05/2017 10:19*		*Analyzed: 06/06/2017 14:18*				
Antimony	< 25.0	25.0	ug/L							
Arsenic	< 25.0	25.0	ug/L							
Barium	< 25.0	25.0	ug/L							
Beryllium	< 2.50	2.50	ug/L							
Boron	< 12.5	12.5	ug/L							
Cadmium	< 2.50	2.50	ug/L							
Calcium	< 0.125	0.125	mg/L							
Chromium	< 25.0	25.0	ug/L							
Cobalt	< 25.0	25.0	ug/L							
Copper	< 25.0	25.0	ug/L							
Iron	< 125	125	ug/L							
Lead	< 25.0	25.0	ug/L							
Manganese	< 25.0	25.0	ug/L							
Molybdenum	< 0.0250	0.0250	mg/L							
Nickel	< 25.0	25.0	ug/L							
Selenium	< 25.0	25.0	ug/L							
Silver	< 2.50	2.50	ug/L							
Thallium	< 25.0	25.0	ug/L							
Zinc	< 25.0	25.0	ug/L							

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0136 - SW3015 *(Continued)*										
Blank (B7F0136-BLK1) (Continued)				*Prepared: 06/05/2017 10:19*			*Analyzed: 06/06/2017 14:18*			
LCS (B7F0136-BS1)				*Prepared: 06/05/2017 10:19*			*Analyzed: 06/06/2017 14:20*			
Antimony	1120	25.0	ug/L	1250		89.6	85-117			
Arsenic	1090	25.0	ug/L	1250		86.9	84-116			
Barium	1270	25.0	ug/L	1250		101	87.5-114			
Beryllium	118	2.50	ug/L	125.0		94.4	83-121			
Boron	581	12.5	ug/L	625.0		92.9	73-130			
Cadmium	107	2.50	ug/L	125.0		85.5	85-115			
Calcium	6.09	0.125	mg/L	6.250		97.4	87-118			
Chromium	1140	25.0	ug/L	1250		91.6	85.8-113			
Cobalt	1160	25.0	ug/L	1250		93.1	86-115			
Copper	1200	25.0	ug/L	1250		96.2	86.2-113			
Iron	2260	125	ug/L	2500		90.3	87-113			
Lead	1200	25.0	ug/L	1250		95.9	88.7-114			
Manganese	1200	25.0	ug/L	1250		95.6	87-115			
Molybdenum	1.22	0.0250	mg/L	1.250		97.8	83-115			
Nickel	1150	25.0	ug/L	1250		92.3	85-114			
Selenium	1070	25.0	ug/L	1250		85.7	80-120			
Silver	118	2.50	ug/L	125.0		94.4	88.9-114			
Thallium	1220	25.0	ug/L	1250		97.7	82-116			
Zinc	1100	25.0	ug/L	1250		87.8	85-108			
LCS (B7F0136-BS2)				*Prepared: 06/05/2017 10:19*			*Analyzed: 06/06/2017 16:25*			
Antimony	1230	25.0	ug/L	1250		98.7	85-117			
Arsenic	1130	25.0	ug/L	1250		90.4	84-116			
Barium	1340	25.0	ug/L	1250		107	87.5-114			
Beryllium	122	2.50	ug/L	125.0		98.0	83-121			
Boron	608	12.5	ug/L	625.0		97.2	73-130			
Cadmium	125	2.50	ug/L	125.0		100	85-115			
Chromium	1240	25.0	ug/L	1250		99.2	85.8-113			
Cobalt	1220	25.0	ug/L	1250		97.6	86-115			
Copper	1260	25.0	ug/L	1250		101	86.2-113			
Iron	2450	125	ug/L	2500		98.1	87-113			
Lead	1190	25.0	ug/L	1250		94.9	88.7-114			
Manganese	1260	25.0	ug/L	1250		101	87-115			
Molybdenum	1.33	0.0250	mg/L	1.250		107	83-115			
Nickel	1230	25.0	ug/L	1250		98.5	85-114			
Selenium	1120	25.0	ug/L	1250		89.6	80-120			
Silver	124	2.50	ug/L	125.0		99.4	88.9-114			
Thallium	1200	25.0	ug/L	1250		96.0	82-116			
Zinc	1150	25.0	ug/L	1250		91.7	85-108			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0136 - SW3015 *(Continued)*										
Serial Dilution (B7F0136-DUP1)				**Source: 17E0473-04**	*Prepared: 06/05/2017 10:19*		*Analyzed: 06/06/2017 16:01*			
Antimony	< 10.0	125	ug/L		ND				10	
Arsenic	< 15.0	125	ug/L		ND				10	
Barium	34.7	125	ug/L		ND				10	
Beryllium	< 1.50	12.5	ug/L		ND				10	
Boron	158	62.5	ug/L		ND				10	
Cadmium	< 2.00	12.5	ug/L		ND				10	
Calcium	55.0	0.625	mg/L		ND				10	
Chromium	3.13	125	ug/L		ND				10	
Cobalt	< 5.00	125	ug/L		ND				10	
Copper	< 20.0	125	ug/L		ND				10	
Iron	1050	625	ug/L		ND				10	
Lead	< 1.40	125	ug/L		ND				10	
Manganese	182	125	ug/L		ND				10	
Molybdenum	0.00571	0.125	mg/L		ND				10	
Nickel	< 25.0	125	ug/L		ND				10	
Selenium	< 5.00	125	ug/L		ND				10	
Silver	< 2.00	12.5	ug/L		ND				10	
Thallium	< 2.00	125	ug/L		ND				10	
Zinc	< 25.0	125	ug/L		ND				10	
MRL Check (B7F0136-MRL1)					*Prepared: 06/05/2017 10:19*		*Analyzed: 06/06/2017 14:21*			
Antimony	33.1	25.0	ug/L	31.25		106	70-130			
Arsenic	28.9	25.0	ug/L	31.25		92.4	70-130			
Barium	33.4	25.0	ug/L	31.25		107	70-130			
Beryllium	2.90	2.50	ug/L	3.125		92.7	70-130			
Boron	17.8	12.5	ug/L	15.62		114	70-130			
Cadmium	3.03	2.50	ug/L	3.125		96.8	70-130			
Calcium	0.161	0.125	mg/L	0.1250		129	70-130			
Chromium	31.2	25.0	ug/L	31.25		99.9	70-130			
Cobalt	23.4	25.0	ug/L	25.00		93.8	70-130			
Copper	32.4	25.0	ug/L	31.25		104	70-130			
Iron	69.0	125	ug/L	62.50		110	70-130			
Lead	29.4	25.0	ug/L	31.25		94.0	70-130			
Manganese	31.4	25.0	ug/L	31.25		100	70-130			
Molybdenum	0.0250	0.0250	mg/L	0.02500		100	70-130			
Nickel	31.2	25.0	ug/L	31.25		99.9	70-130			
Selenium	28.6	25.0	ug/L	31.25		91.6	70-130			
Silver	3.07	2.50	ug/L	3.125		98.2	70-130			
Thallium	29.7	25.0	ug/L	31.25		95.0	70-130			
Zinc	30.4	25.0	ug/L	31.25		97.2	70-130			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0136 - SW3015 *(Continued)*										
Matrix Spike (B7F0136-MS1)	**Source: 17E0473-04**			*Prepared: 06/05/2017 10:19*		*Analyzed: 06/06/2017 15:56*				
Antimony	1130	25.0	ug/L	1250	ND	90.5	75-125			
Arsenic	1070	25.0	ug/L	1250	ND	86.0	75-125			
Barium	1300	25.0	ug/L	1250	ND	104	75-125			
Beryllium	119	2.50	ug/L	125.0	ND	94.9	75-125			
Boron	727	12.5	ug/L	625.0	ND	116	75-125			
Cadmium	109	2.50	ug/L	125.0	ND	87.4	75-125			
Calcium	55.5	0.125	mg/L	6.250	ND	888	75-125			S
Chromium	1160	25.0	ug/L	1250	ND	92.5	75-125			
Cobalt	1120	25.0	ug/L	1250	ND	89.7	75-125			
Copper	1140	25.0	ug/L	1250	ND	91.3	75-125			
Iron	3210	125	ug/L	2500	ND	128	75-125			S
Lead	1120	25.0	ug/L	1250	ND	89.7	75-125			
Manganese	1370	25.0	ug/L	1250	ND	109	75-125			
Molybdenum	1.20	0.0250	mg/L	1.250	ND	95.8	75-125			
Nickel	1130	25.0	ug/L	1250	ND	90.4	75-125			
Selenium	1070	25.0	ug/L	1250	ND	85.5	75-125			
Silver	109	2.50	ug/L	125.0	ND	86.8	75-125			
Thallium	1180	25.0	ug/L	1250	ND	94.3	75-125			
Zinc	1080	25.0	ug/L	1250	ND	86.3	75-125			
Matrix Spike Dup (B7F0136-MSD1)	**Source: 17E0473-04**			*Prepared: 06/05/2017 10:19*		*Analyzed: 06/06/2017 15:58*				
Antimony	1190	25.0	ug/L	1250	ND	94.9	75-125	4.79	20	
Arsenic	1060	25.0	ug/L	1250	ND	84.7	75-125	1.45	20	
Barium	1230	25.0	ug/L	1250	ND	98.7	75-125	5.31	20	
Beryllium	119	2.50	ug/L	125.0	ND	95.4	75-125	0.512	20	
Boron	722	12.5	ug/L	625.0	ND	116	75-125	0.639	20	
Cadmium	115	2.50	ug/L	125.0	ND	91.8	75-125	4.94	20	
Calcium	55.8	0.125	mg/L	6.250	ND	892	75-125	0.415	20	S
Chromium	1150	25.0	ug/L	1250	ND	92.3	75-125	0.199	20	
Cobalt	1130	25.0	ug/L	1250	ND	90.2	75-125	0.482	20	
Copper	1120	25.0	ug/L	1250	ND	89.6	75-125	1.94	20	
Iron	3180	125	ug/L	2500	ND	127	75-125	0.705	20	S
Lead	1120	25.0	ug/L	1250	ND	89.3	75-125	0.493	20	
Manganese	1360	25.0	ug/L	1250	ND	109	75-125	0.604	20	
Molybdenum	1.27	0.0250	mg/L	1.250	ND	101	75-125	5.57	20	
Nickel	1130	25.0	ug/L	1250	ND	90.3	75-125	0.113	20	
Selenium	1060	25.0	ug/L	1250	ND	84.4	75-125	1.33	20	
Silver	113	2.50	ug/L	125.0	ND	90.5	75-125	4.18	20	
Thallium	1140	25.0	ug/L	1250	ND	91.5	75-125	2.94	20	
Zinc	1060	25.0	ug/L	1250	ND	84.6	75-125	1.95	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0136 - SW3015 *(Continued)*										
Post Spike (B7F0136-PS1)		**Source: 17E0473-04**		*Prepared: 06/05/2017 10:19*		*Analyzed: 06/06/2017 16:00*				
Antimony	302	25.0	ug/L	312.5	ND	96.6	80-120			
Arsenic	299	25.0	ug/L	312.5	ND	95.8	80-120			
Barium	329	25.0	ug/L	312.5	ND	105	80-120			
Beryllium	151	2.50	ug/L	156.2	ND	96.4	80-120			
Boron	431	12.5	ug/L	312.5	ND	138	80-120			S
Cadmium	277	2.50	ug/L	312.5	ND	88.8	80-120			
Calcium	52.2	0.125	mg/L	1.562	ND	3340	80-120			S
Chromium	305	25.0	ug/L	312.5	ND	97.7	80-120			
Cobalt	308	25.0	ug/L	312.5	ND	98.6	80-120			
Copper	301	25.0	ug/L	312.5	ND	96.3	80-120			
Iron	2410	125	ug/L	1562	ND	154	80-120			S
Lead	287	25.0	ug/L	312.5	ND	91.7	80-120			
Manganese	498	25.0	ug/L	312.5	ND	159	80-120			S
Molybdenum	0.290	0.0250	mg/L	0.3125	ND	92.7	80-120			
Nickel	294	25.0	ug/L	312.5	ND	94.0	80-120			
Selenium	283	25.0	ug/L	312.5	ND	90.7	80-120			
Silver	288	2.50	ug/L	312.5	ND	92.2	80-120			
Thallium	285	25.0	ug/L	312.5	ND	91.3	80-120			
Zinc	290	25.0	ug/L	312.5	ND	92.8	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0356										
Blank (B7E0356-BLK1)				*Prepared: 05/10/2017 07:30*		*Analyzed: 05/10/2017 13:38*				
Mercury	< 0.25	0.25	ug/L							
LCS (B7E0356-BS1)				*Prepared: 05/10/2017 07:30*		*Analyzed: 05/10/2017 13:40*				
Mercury	4.70	0.25	ug/L	5.000		94.0	82-119			
MRL Check (B7E0356-MRL1)				*Prepared: 05/10/2017 07:30*		*Analyzed: 05/10/2017 13:29*				
Mercury	0.26	0.25	ug/L	0.2500		105	70-130			
Matrix Spike (B7E0356-MS1)		**Source: 17E0121-01**		*Prepared: 05/10/2017 07:30*		*Analyzed: 05/10/2017 13:57*				
Mercury	4.16	0.50	ug/L	4.000	ND	104	75-125			
Matrix Spike Dup (B7E0356-MSD1)		**Source: 17E0121-01**		*Prepared: 05/10/2017 07:30*		*Analyzed: 05/10/2017 14:07*				
Mercury	4.11	0.50	ug/L	4.000	ND	103	75-125	1.16	20	
Batch: B7F0375										
Blank (B7F0375-BLK1)				*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 13:45*				
Mercury	< 0.50	0.50	ug/L							
TCLP Blank (B7F0375-BLK2)				*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 14:51*				
Mercury	< 0.20	0.50	ug/L							
LCS (B7F0375-BS1)				*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 13:48*				
Mercury	9.27	0.50	ug/L	10.00		92.7	82-119			
MRL Check (B7F0375-MRL1)				*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 13:26*				
Mercury	0.46	0.50	ug/L	0.5000		92.8	70-130			
Matrix Spike (B7F0375-MS1)		**Source: 17E0121-05**		*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 13:52*				
Mercury	3.61	0.50	ug/L	4.000	ND	90.4	75-125			
Matrix Spike (B7F0375-MS2)		**Source: 17E0123-01**		*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 14:03*				
Mercury	3.76	0.50	ug/L	4.000	ND	94.0	75-125			
Matrix Spike (B7F0375-MS3)		**Source: 17F0239-01**		*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 14:45*				
Mercury	3.08	0.50	ug/L	4.000	ND	77.0	75-125			
Matrix Spike Dup (B7F0375-MSD1)		**Source: 17E0121-05**		*Prepared: 06/12/2017 07:50*		*Analyzed: 06/12/2017 13:54*				
Mercury	3.54	0.50	ug/L	4.000	ND	88.6	75-125	2.01	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Mercury by CVAA

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0375 *(Continued)*										
Matrix Spike Dup (B7F0375-MSD2)		**Source: 17E0123-01**		*Prepared: 06/12/2017 07:50*			*Analyzed: 06/12/2017 14:16*			
Mercury	3.70	0.50	ug/L	4.000	ND	92.4	75-125	1.72	20	
Matrix Spike Dup (B7F0375-MSD3)		**Source: 17F0239-01**		*Prepared: 06/12/2017 07:50*			*Analyzed: 06/12/2017 14:47*			
Mercury	3.29	0.50	ug/L	4.000	ND	82.3	75-125	6.59	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0194										
Blank (B7E0194-BLK1)				*Prepared: 05/05/2017 08:10*		*Analyzed: 05/05/2017 09:36*				
Chloride	< 0.300	0.300	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B7E0194-BS1)				*Prepared: 05/05/2017 08:10*		*Analyzed: 05/05/2017 10:04*				
Chloride	0.218	0.300	mg/L	0.2000		109	80-120			
Fluoride	0.216	0.0500	mg/L	0.2000		108	80-120			
Nitrogen, Nitrate	0.0890	0.0500	mg/L	0.09040		98.5	80-120			
Sulfate	0.418	0.500	mg/L	0.4000		104	80-120			
LCS (B7E0194-BS2)				*Prepared: 05/05/2017 08:10*		*Analyzed: 05/05/2017 10:33*				
Chloride	5.12	0.300	mg/L	5.000		102	80-120			
Fluoride	5.20	0.0500	mg/L	5.000		104	80-120			
Nitrogen, Nitrate	2.23	0.0500	mg/L	2.260		98.8	80-120			
Sulfate	10.1	0.500	mg/L	10.00		101	80-120			
Matrix Spike (B7E0194-MS1)		**Source: 17E0121-02**		*Prepared: 05/05/2017 08:10*		*Analyzed: 05/05/2017 16:51*				
Chloride	34.9	3.00	mg/L	25.00	8.75	104	80-120			
Fluoride	28.1	0.500	mg/L	25.00	0.130	112	80-120			
Nitrogen, Nitrate	26.8	0.500	mg/L	25.00	0.0800	107	80-120			
Sulfate	33.2	5.00	mg/L	25.00	7.07	104	80-120			
Matrix Spike (B7E0194-MS2)		**Source: 17E0121-01**		*Prepared: 05/05/2017 08:10*		*Analyzed: 05/06/2017 00:29*				
Chloride	109	3.00	mg/L	25.00	83.8	102	80-120			
Fluoride	28.2	0.500	mg/L	25.00	0.0900	113	80-120			
Nitrogen, Nitrate	27.0	0.500	mg/L	25.00	0.210	107	80-120			
Sulfate	316	5.00	mg/L	25.00	294	90.6	80-120			
Matrix Spike Dup (B7E0194-MSD1)		**Source: 17E0121-02**		*Prepared: 05/05/2017 08:10*		*Analyzed: 05/05/2017 17:19*				
Chloride	33.6	3.00	mg/L	25.00	8.75	99.5	80-120	3.62	15	
Fluoride	27.5	0.500	mg/L	25.00	0.130	109	80-120	2.05	15	
Nitrogen, Nitrate	26.4	0.500	mg/L	25.00	0.0800	105	80-120	1.54	15	
Sulfate	32.7	5.00	mg/L	25.00	7.07	103	80-120	1.31	20	
Matrix Spike Dup (B7E0194-MSD2)		**Source: 17E0121-01**		*Prepared: 05/05/2017 08:10*		*Analyzed: 05/06/2017 00:58*				
Chloride	107	3.00	mg/L	25.00	83.8	91.1	80-120	2.53	15	
Fluoride	28.2	0.500	mg/L	25.00	0.0900	112	80-120	0.142	15	
Nitrogen, Nitrate	26.9	0.500	mg/L	25.00	0.210	107	80-120	0.334	15	
Sulfate	307	5.00	mg/L	25.00	294	53.2	80-120	3.00	20	S
Batch: B7E1219										

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E1219 *(Continued)*										
Blank (B7E1219-BLK1)				*Prepared: 05/31/2017 14:44*			*Analyzed: 06/01/2017 02:57*			
Chloride	< 0.300	0.300	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B7E1219-BS1)				*Prepared: 05/31/2017 14:44*			*Analyzed: 06/01/2017 03:26*			
Chloride	0.216	0.300	mg/L	0.2000		108	87-110			
Fluoride	0.204	0.0500	mg/L	0.2000		102	88-112			
Nitrogen, Nitrate	0.0840	0.0500	mg/L	0.09040		92.9	88-111			
Sulfate	0.394	0.500	mg/L	0.4000		98.5	87-112			
LCS (B7E1219-BS2)				*Prepared: 05/31/2017 14:44*			*Analyzed: 06/01/2017 03:54*			
Chloride	5.01	0.300	mg/L	5.000		100	87-110			
Fluoride	5.33	0.0500	mg/L	5.000		107	88-112			
Nitrogen, Nitrate	2.14	0.0500	mg/L	2.260		94.6	88-111			
Sulfate	9.36	0.500	mg/L	10.00		93.6	87-112			
Matrix Spike (B7E1219-MS1)		**Source: 17E0703-01**		*Prepared: 05/31/2017 14:44*			*Analyzed: 06/01/2017 10:07*			
Chloride	38.3	3.00	mg/L	25.00	14.1	96.6	87-110			
Fluoride	27.4	0.500	mg/L	25.00	0.120	109	88-112			
Nitrogen, Nitrate	25.5	0.500	mg/L	25.00	0.750	99.2	88-111			
Sulfate	67.2	5.00	mg/L	25.00	46.1	84.7	87-112			S
Matrix Spike Dup (B7E1219-MSD1)		**Source: 17E0703-01**		*Prepared: 05/31/2017 14:44*			*Analyzed: 06/01/2017 10:35*			
Chloride	38.7	3.00	mg/L	25.00	14.1	98.4	87-110	1.19	15	
Fluoride	27.6	0.500	mg/L	25.00	0.120	110	88-112	0.837	15	
Nitrogen, Nitrate	25.7	0.500	mg/L	25.00	0.750	99.9	88-111	0.741	15	
Sulfate	68.3	5.00	mg/L	25.00	46.1	89.0	87-112	1.59	20	
Batch: B7F0230										
Blank (B7F0230-BLK1)				*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 09:15*			
Sulfate	< 0.500	0.500	mg/L							
LCS (B7F0230-BS1)				*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 09:49*			
Sulfate	0.438	0.500	mg/L	0.4000		110	80-120			
LCS (B7F0230-BS2)				*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 10:46*			
Sulfate	9.88	0.500	mg/L	10.00		98.8	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0230 *(Continued)*										
Matrix Spike (B7F0230-MS1)			**Source: 17F0266-01**	*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 17:26*			
Sulfate	323	50.0	mg/L	250.0	80.9	96.8	80-120			
Matrix Spike (B7F0230-MS2)			**Source: 17E0123-04RE1**	*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 21:14*			
Sulfate	550	50.0	mg/L	250.0	328	88.8	80-120			
Matrix Spike Dup (B7F0230-MSD1)			**Source: 17F0266-01**	*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 17:55*			
Sulfate	324	50.0	mg/L	250.0	80.9	97.2	80-120	0.340	20	
Matrix Spike Dup (B7F0230-MSD2)			**Source: 17E0123-04RE1**	*Prepared: 06/07/2017 08:24*			*Analyzed: 06/07/2017 21:43*			
Sulfate	550	50.0	mg/L	250.0	328	88.9	80-120	0.0727	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0260										
Blank (B7E0260-BLK1)				*Prepared: 05/08/2017 10:00*		*Analyzed: 05/08/2017 14:27*				
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B7E0260-BS1)				*Prepared: 05/08/2017 10:00*		*Analyzed: 05/08/2017 14:27*				
Phenolics, Total Recoverable	0.0480	0.0100	mg/L	0.05000		96.0	90.5-115			
Matrix Spike (B7E0260-MS1)		**Source: 17E0122-01**		*Prepared: 05/08/2017 10:00*		*Analyzed: 05/08/2017 13:37*				
Phenolics, Total Recoverable	0.0543	0.0100	mg/L	0.05000	ND	109	80-120			
Matrix Spike Dup (B7E0260-MSD1)		**Source: 17E0122-01**		*Prepared: 05/08/2017 10:00*		*Analyzed: 05/08/2017 13:37*				
Phenolics, Total Recoverable	0.0544	0.0100	mg/L	0.05000	ND	109	80-120	0.118	20	
Batch: B7E0313 - SW9010B										
Blank (B7E0313-BLK1)				*Prepared: 05/09/2017 08:30*		*Analyzed: 05/09/2017 12:20*				
Cyanide	< 0.010	0.010	mg/L							
LCS (B7E0313-BS1)				*Prepared: 05/09/2017 08:30*		*Analyzed: 05/09/2017 12:28*				
Cyanide	0.056	0.010	mg/L	0.05000		111	85-115			
Matrix Spike (B7E0313-MS1)		**Source: 17E0121-01**		*Prepared: 05/09/2017 08:30*		*Analyzed: 05/09/2017 12:36*				
Cyanide	0.230	0.010	mg/L	0.2000	ND	115	80-120			
Matrix Spike Dup (B7E0313-MSD1)		**Source: 17E0121-01**		*Prepared: 05/09/2017 08:30*		*Analyzed: 05/09/2017 12:36*				
Cyanide	0.250	0.010	mg/L	0.2000	ND	125	80-120	8.39	20	S
Batch: B7E0404										
Blank (B7E0404-BLK1)				*Prepared: 05/10/2017 09:30*		*Analyzed: 05/10/2017 09:30*				
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B7E0404-BS1)				*Prepared: 05/10/2017 09:30*		*Analyzed: 05/10/2017 09:30*				
Total Dissolved Solids (Residue, Filterable)	974	10.0	mg/L	1002		97.2	85-111			
Duplicate (B7E0404-DUP1)		**Source: 17E0121-01**		*Prepared: 05/10/2017 09:30*		*Analyzed: 05/10/2017 09:30*				
Total Dissolved Solids (Residue, Filterable)	836	10.0	mg/L		856			2.36	5	
Duplicate (B7E0404-DUP2)		**Source: 17E0375-05**		*Prepared: 05/10/2017 09:30*		*Analyzed: 05/10/2017 09:30*				
Total Dissolved Solids (Residue, Filterable)	110000	10.0	mg/L		110000			0.309	5	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0404 *(Continued)*										
Batch: B7F0011 - SW9010B										
Blank (B7F0011-BLK1)				*Prepared: 06/01/2017 08:30*			*Analyzed: 06/01/2017 11:47*			
Cyanide	< 0.010	0.010	mg/L							
LCS (B7F0011-BS1)				*Prepared: 06/01/2017 08:30*			*Analyzed: 06/01/2017 12:53*			
Cyanide	0.043	0.010	mg/L	0.05000		86.4	85-115			
Matrix Spike (B7F0011-MS1)		**Source: 17E0689-03**		*Prepared: 06/01/2017 08:30*			*Analyzed: 06/01/2017 11:55*			
Cyanide	0.185	0.100	mg/L	0.2000	ND	92.6	80-120			
Matrix Spike Dup (B7F0011-MSD1)		**Source: 17E0689-03**		*Prepared: 06/01/2017 08:30*			*Analyzed: 06/01/2017 11:58*			
Cyanide	0.223	0.100	mg/L	0.2000	ND	112	80-120	18.7	20	
Batch: B7F0021										
Blank (B7F0021-BLK1)				*Prepared: 06/01/2017 09:50*			*Analyzed: 06/01/2017 13:58*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B7F0021-BS1)				*Prepared: 06/01/2017 09:50*			*Analyzed: 06/01/2017 13:58*			
Phenolics, Total Recoverable	0.0573	0.0100	mg/L	0.05000		115	90.5-115			
Matrix Spike (B7F0021-MS1)		**Source: 17E0123-04**		*Prepared: 06/01/2017 09:50*			*Analyzed: 06/01/2017 14:26*			
Phenolics, Total Recoverable	0.0479	0.0100	mg/L	0.05000	ND	95.7	80-120			
Matrix Spike Dup (B7F0021-MSD1)		**Source: 17E0123-04**		*Prepared: 06/01/2017 09:50*			*Analyzed: 06/01/2017 14:26*			
Phenolics, Total Recoverable	0.0444	0.0100	mg/L	0.05000	ND	88.8	80-120	7.49	20	
Batch: B7F0071										
Blank (B7F0071-BLK1)				*Prepared: 06/02/2017 09:40*			*Analyzed: 06/02/2017 14:55*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B7F0071-BS1)				*Prepared: 06/02/2017 09:40*			*Analyzed: 06/02/2017 14:55*			
Phenolics, Total Recoverable	0.0575	0.0100	mg/L	0.05000		115	90.5-115			
Matrix Spike (B7F0071-MS1)		**Source: 17E0689-04**		*Prepared: 06/02/2017 09:40*			*Analyzed: 06/02/2017 14:55*			
Phenolics, Total Recoverable	0.0541	0.0100	mg/L	0.05000	ND	108	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0071 *(Continued)*										
Matrix Spike Dup (B7F0071-MSD1)		**Source: 17E0689-04**		*Prepared: 06/02/2017 09:40*			*Analyzed: 06/02/2017 14:55*			
Phenolics, Total Recoverable	0.0489	0.0100	mg/L	0.05000	ND	97.7	80-120	10.2	20	
Batch: B7F0211										
Blank (B7F0211-BLK1)				*Prepared: 06/06/2017 13:00*			*Analyzed: 06/06/2017 13:00*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B7F0211-BS1)				*Prepared: 06/06/2017 13:00*			*Analyzed: 06/06/2017 13:00*			
Total Dissolved Solids (Residue, Filterable)	985	10.0	mg/L	1002		98.3	85-111			
Duplicate (B7F0211-DUP1)		**Source: 17E0703-13**		*Prepared: 06/06/2017 13:00*			*Analyzed: 06/06/2017 13:00*			
Total Dissolved Solids (Residue, Filterable)	394	10.0	mg/L		392			0.509	5	
Duplicate (B7F0211-DUP2)		**Source: 17E0123-02**		*Prepared: 06/06/2017 13:00*			*Analyzed: 06/06/2017 13:00*			
Total Dissolved Solids (Residue, Filterable)	1170	10.0	mg/L		1180			0.170	5	

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0338 - SW3510										
Blank (B7E0338-BLK1)				*Prepared: 05/09/2017 12:42*			*Analyzed: 05/15/2017 15:59*			
Alachlor	< 0.200	0.200	ug/L							
Atrazine	< 0.200	0.200	ug/L							
Chlordane	< 0.200	0.200	ug/L							
Endrin	< 0.0200	0.0200	ug/L							
Lindane (gamma-BHC)	< 0.0200	0.0200	ug/L							
Heptachlor	< 0.0200	0.0200	ug/L							
Heptachlor epoxide	< 0.0200	0.0200	ug/L							
Methoxychlor	< 0.0200	0.0200	ug/L							
Simazine	< 0.200	0.200	ug/L							
Toxaphene	< 0.800	0.800	ug/L							
Surrogate: Decachlorobiphenyl	*ND*		*ug/L*	*0.05000*		*136*	*30-109*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*ND*		*ug/L*	*0.05000*		*79*	*21-124*			
LCS (B7E0338-BS1)				*Prepared: 05/09/2017 12:42*			*Analyzed: 05/15/2017 16:46*			
Endrin	0.263	0.0500	ug/L	0.2000		132	34-154			
Lindane (gamma-BHC)	0.174	0.0500	ug/L	0.2000		87	10-130			
Heptachlor	0.193	0.0500	ug/L	0.2000		96	9-147			
Heptachlor epoxide	0.222	0.0500	ug/L	0.2000		111	32-121			
Methoxychlor	0.264	0.0500	ug/L	0.2000		132	52-146			
Surrogate: Decachlorobiphenyl	*0.256*		*ug/L*	*0.2000*		*128*	*30-109*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.151*		*ug/L*	*0.2000*		*75*	*21-124*			
LCS (B7E0338-BS2)				*Prepared: 05/09/2017 12:42*			*Analyzed: 05/15/2017 18:19*			
Alachlor	1.10	0.500	ug/L	1.000		110	0-200			
Atrazine	1.16	0.500	ug/L	1.000		116	26-129			
Simazine	0.877	0.500	ug/L	1.000		88	35-124			
LCS Dup (B7E0338-BSD1)				*Prepared: 05/09/2017 12:42*			*Analyzed: 05/15/2017 17:33*			
Endrin	0.252	0.0500	ug/L	0.2000		126	34-154	4	20	
Lindane (gamma-BHC)	0.158	0.0500	ug/L	0.2000		79	10-130	10	20	
Heptachlor	0.174	0.0500	ug/L	0.2000		87	9-147	10	20	
Heptachlor epoxide	0.212	0.0500	ug/L	0.2000		106	32-121	5	20	
Methoxychlor	0.251	0.0500	ug/L	0.2000		125	52-146	5	20	

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Quality Control

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Client: City, Water, Light & Power
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2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0338 - SW3510 *(Continued)*										
LCS Dup (B7E0338-BSD1) (Continued)				*Prepared: 05/09/2017 12:42*			*Analyzed: 05/15/2017 17:33*			
Surrogate: Decachlorobiphenyl	*0.231*		*ug/L*	*0.2000*		*115*	*30-109*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.135*		*ug/L*	*0.2000*		*67*	*21-124*			
LCS Dup (B7E0338-BSD2)				*Prepared: 05/09/2017 12:42*			*Analyzed: 05/15/2017 19:06*			
Alachlor	1.08	0.500	ug/L	1.000		108	0-200	1	20	
Atrazine	1.09	0.500	ug/L	1.000		109	26-129	7	20	
Simazine	0.951	0.500	ug/L	1.000		95	35-124	8	20	
Batch: B7F0206 - SW3510										
Blank (B7F0206-BLK1)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/12/2017 13:41*			
Alachlor	< 0.200	0.200	ug/L							
Atrazine	< 0.200	0.200	ug/L							
Chlordane	< 0.200	0.200	ug/L							
Endrin	< 0.0200	0.0200	ug/L							
Lindane (gamma-BHC)	< 0.0200	0.0200	ug/L							
Heptachlor	< 0.0200	0.0200	ug/L							
Heptachlor epoxide	< 0.0200	0.0200	ug/L							
Methoxychlor	< 0.0200	0.0200	ug/L							
Simazine	< 0.200	0.200	ug/L							
Toxaphene	< 0.800	0.800	ug/L							
Surrogate: Decachlorobiphenyl	*ND*		*ug/L*	*0.05000*		*78*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*ND*		*ug/L*	*0.05000*		*50*	*21-124*			
LCS (B7F0206-BS1)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/12/2017 15:14*			
Endrin	0.204	0.0500	ug/L	0.2000		102	34-154			
Lindane (gamma-BHC)	0.148	0.0500	ug/L	0.2000		74	10-130			
Heptachlor	0.131	0.0500	ug/L	0.2000		66	9-147			
Heptachlor epoxide	0.177	0.0500	ug/L	0.2000		88	32-121			
Methoxychlor	0.191	0.0500	ug/L	0.2000		96	52-146			
Surrogate: Decachlorobiphenyl	*0.163*		*ug/L*	*0.2000*		*81*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.126*		*ug/L*	*0.2000*		*63*	*21-124*			
LCS (B7F0206-BS2)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/12/2017 16:47*			
Alachlor	0.955	0.500	ug/L	1.000		96	0-200			
Atrazine	1.08	0.500	ug/L	1.000		108	26-129			
Simazine	0.874	0.500	ug/L	1.000		87	35-124			
Surrogate: Decachlorobiphenyl	*0.174*		*ug/L*	*0.2000*		*87*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.137*		*ug/L*	*0.2000*		*69*	*21-124*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0206 - SW3510 *(Continued)*										
LCS Dup (B7F0206-BSD1)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/12/2017 16:01*			
Endrin	0.210	0.0500	ug/L	0.2000		105	34-154	3	20	
Lindane (gamma-BHC)	0.128	0.0500	ug/L	0.2000		64	10-130	15	20	
Heptachlor	0.115	0.0500	ug/L	0.2000		58	9-147	13	20	
Heptachlor epoxide	0.166	0.0500	ug/L	0.2000		83	32-121	6	20	
Methoxychlor	0.218	0.0500	ug/L	0.2000		109	52-146	13	20	
Surrogate: Decachlorobiphenyl	*0.184*		*ug/L*	*0.2000*		*92*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.108*		*ug/L*	*0.2000*		*54*	*21-124*			
LCS Dup (B7F0206-BSD2)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/12/2017 17:34*			
Alachlor	0.929	0.500	ug/L	1.000		93	0-200	3	20	
Atrazine	1.04	0.500	ug/L	1.000		104	26-129	4	20	
Simazine	0.846	0.500	ug/L	1.000		85	35-124	3	20	
Surrogate: Decachlorobiphenyl	*0.180*		*ug/L*	*0.2000*		*90*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.135*		*ug/L*	*0.2000*		*68*	*21-124*			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0339 - SW3510										
Blank (B7E0339-BLK1)				*Prepared: 05/09/2017 12:47*			*Analyzed: 05/11/2017 16:20*			
Aroclor 1016	< 0.120	0.120	ug/L							
Aroclor 1221	< 0.120	0.120	ug/L							
Aroclor 1232	< 0.120	0.120	ug/L							
Aroclor 1242	< 0.120	0.120	ug/L							
Aroclor 1248	< 0.120	0.120	ug/L							
Aroclor 1254	< 0.120	0.120	ug/L							
Aroclor 1260	< 0.120	0.120	ug/L							
Total PCB	< 0.400	0.400	ug/L							
Surrogate: Decachlorobiphenyl	*0.0707*		*ug/L*	*0.05000*		*141*	*40-135*			*S*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0413*		*ug/L*	*0.05000*		*83*	*13-133*			
LCS (B7E0339-BS1)				*Prepared: 05/09/2017 12:47*			*Analyzed: 05/10/2017 18:49*			
Aroclor 1016	0.348	0.300	ug/L	0.4000		87	46-129			
Aroclor 1260	0.434	0.300	ug/L	0.4000		108	45-134			
Surrogate: Decachlorobiphenyl	*0.0901*		*ug/L*	*0.1000*		*90*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0550*		*ug/L*	*0.1000*		*55*	*13-133*			
LCS Dup (B7E0339-BSD1)				*Prepared: 05/09/2017 12:47*			*Analyzed: 05/10/2017 19:16*			
Aroclor 1016	0.352	0.300	ug/L	0.4000		88	46-129	1	20	
Aroclor 1260	0.381	0.300	ug/L	0.4000		95	45-134	13	20	
Surrogate: Decachlorobiphenyl	*0.0968*		*ug/L*	*0.1000*		*97*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0632*		*ug/L*	*0.1000*		*63*	*13-133*			
Batch: B7F0207 - SW3510										
Blank (B7F0207-BLK1)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/07/2017 02:02*			
Aroclor 1016	< 0.120	0.120	ug/L							
Aroclor 1221	< 0.120	0.120	ug/L							
Aroclor 1232	< 0.120	0.120	ug/L							
Aroclor 1242	< 0.120	0.120	ug/L							
Aroclor 1248	< 0.120	0.120	ug/L							
Aroclor 1254	< 0.120	0.120	ug/L							
Aroclor 1260	< 0.120	0.120	ug/L							
Total PCB	< 0.400	0.400	ug/L							
Surrogate: Decachlorobiphenyl	*0.0452*		*ug/L*	*0.05000*		*90*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0249*		*ug/L*	*0.05000*		*50*	*13-133*			
LCS (B7F0207-BS1)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/07/2017 02:29*			
Aroclor 1016	0.283	0.300	ug/L	0.4000		71	46-129			
Aroclor 1260	0.329	0.300	ug/L	0.4000		82	45-134			
Surrogate: Decachlorobiphenyl	*0.107*		*ug/L*	*0.1000*		*107*	*40-135*			

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Quality Control

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Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0207 - SW3510 *(Continued)*										
LCS (B7F0207-BS1) (Continued)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/07/2017 02:29*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0568*		*ug/L*	*0.1000*		*57*	*13-133*			
LCS Dup (B7F0207-BSD1)				*Prepared: 06/06/2017 14:20*			*Analyzed: 06/07/2017 02:56*			
Aroclor 1016	0.294	0.300	ug/L	0.4000		73	46-129	4	20	
Aroclor 1260	0.337	0.300	ug/L	0.4000		84	45-134	3	20	
Surrogate: Decachlorobiphenyl	*0.108*		*ug/L*	*0.1000*		*108*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0527*		*ug/L*	*0.1000*		*53*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0960										
Blank (B7E0960-BLK1)				*Prepared: 05/24/2017 07:00*			*Analyzed: 05/24/2017 08:44*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B7E0960-BS1)				*Prepared: 05/24/2017 07:00*			*Analyzed: 05/24/2017 09:16*			
Aldicarb	42.9	2.00	ug/L	50.00		86	85-115			
Carbofuran	44.6	2.00	ug/L	50.00		89	85-115			
LCS Dup (B7E0960-BSD1)				*Prepared: 05/24/2017 07:00*			*Analyzed: 05/24/2017 09:49*			
Aldicarb	44.5	2.00	ug/L	50.00		89	85-115	4	20	
Carbofuran	46.0	2.00	ug/L	50.00		92	85-115	3	20	
Batch: B7F0219										
Blank (B7F0219-BLK1)				*Prepared: 06/07/2017 06:30*			*Analyzed: 06/07/2017 07:54*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B7F0219-BS1)				*Prepared: 06/07/2017 06:30*			*Analyzed: 06/07/2017 08:26*			
Aldicarb	43.9	2.00	ug/L	50.00		88	85-115			
Carbofuran	43.1	2.00	ug/L	50.00		86	85-115			
LCS Dup (B7F0219-BSD1)				*Prepared: 06/07/2017 06:30*			*Analyzed: 06/07/2017 14:20*			
Aldicarb	43.0	2.00	ug/L	50.00		86	85-115	2	20	
Carbofuran	43.6	2.00	ug/L	50.00		87	85-115	1	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0169 - SW3510										
Blank (B7E0169-BLK1)				*Prepared: 05/04/2017 16:37*			*Analyzed: 05/08/2017 10:14*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*19.8*		*ug/L*	*25.00*		*79*	*37-152*			
LCS (B7E0169-BS1)				*Prepared: 05/04/2017 16:37*			*Analyzed: 05/08/2017 10:53*			
2,4,5-TP (Silvex)	10.4	1.50	ug/L	10.00		104	59.3-127			
2,4-D	8.68	1.50	ug/L	10.00		87	44.4-117			
Picloram	5.57	1.50	ug/L	10.00		56	10-60			
Surrogate: 3,5-Dichlorobenzoic Acid	*18.9*		*ug/L*	*25.00*		*76*	*37-152*			
LCS (B7E0169-BS2)				*Prepared: 05/04/2017 16:37*			*Analyzed: 05/08/2017 12:12*			
Dinoseb	8.91	1.50	ug/L	10.00		89	52-100			
Surrogate: 3,5-Dichlorobenzoic Acid	*32.1*		*ug/L*	*25.00*		*128*	*37-152*			
LCS Dup (B7E0169-BSD1)				*Prepared: 05/04/2017 16:37*			*Analyzed: 05/08/2017 11:33*			
2,4,5-TP (Silvex)	11.2	1.50	ug/L	10.00		112	59.3-127	7	20	
2,4-D	10.2	1.50	ug/L	10.00		102	44.4-117	16	20	
Picloram	7.53	1.50	ug/L	10.00		75	10-60	30	20	P, S
Surrogate: 3,5-Dichlorobenzoic Acid	*21.5*		*ug/L*	*25.00*		*86*	*37-152*			
LCS Dup (B7E0169-BSD2)				*Prepared: 05/04/2017 16:37*			*Analyzed: 05/08/2017 12:51*			
Dinoseb	8.57	1.50	ug/L	10.00		86	52-100	4	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*27.9*		*ug/L*	*25.00*		*112*	*37-152*			
Batch: B7F0215 - SW3510										
Blank (B7F0215-BLK1)				*Prepared: 06/06/2017 16:25*			*Analyzed: 06/08/2017 09:50*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*19.6*		*ug/L*	*25.00*		*79*	*37-128*			
LCS (B7F0215-BS1)				*Prepared: 06/06/2017 16:25*			*Analyzed: 06/08/2017 10:29*			
2,4,5-TP (Silvex)	9.50	1.50	ug/L	10.00		95	66-120			
2,4-D	8.21	1.50	ug/L	10.00		82	44.4-117			
Picloram	2.80	1.50	ug/L	10.00		28	10-122			
Surrogate: 3,5-Dichlorobenzoic Acid	*18.3*		*ug/L*	*25.00*		*73*	*37-128*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0215 - SW3510 *(Continued)*										
LCS (B7F0215-BS2)				*Prepared: 06/06/2017 16:25*			*Analyzed: 06/08/2017 11:47*			
Dinoseb	7.57	1.50	ug/L	10.00		76	54.9-111			
Surrogate: 3,5-Dichlorobenzoic Acid	*25.3*		*ug/L*	*25.00*		*101*	*37-128*			
LCS Dup (B7F0215-BSD1)				*Prepared: 06/06/2017 16:25*			*Analyzed: 06/08/2017 11:08*			
2,4,5-TP (Silvex)	9.16	1.50	ug/L	10.00		92	66-120	4	20	
2,4-D	7.60	1.50	ug/L	10.00		76	44.4-117	8	20	
Picloram	2.38	1.50	ug/L	10.00		24	10-122	16	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*19.0*		*ug/L*	*25.00*		*76*	*37-128*			
LCS Dup (B7F0215-BSD2)				*Prepared: 06/06/2017 16:25*			*Analyzed: 06/08/2017 12:26*			
Dinoseb	7.17	1.50	ug/L	10.00		72	54.9-111	5	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*27.3*		*ug/L*	*25.00*		*109*	*37-128*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0345 - SW5030										
Blank (B7E0345-BLK1)				*Prepared: 05/08/2017 10:01 Analyzed: 05/08/2017 13:55*						
1,1,1-Trichloroethane	< 4.00	4.00	ug/L							
1,1,2-Trichloroethane	< 4.00	4.00	ug/L							
1,1-Dichloroethene	< 2.00	2.00	ug/L							
1,2-Dichloroethane	< 2.00	2.00	ug/L							
1,2-Dichloropropane	< 4.00	4.00	ug/L							
Benzene	< 4.00	4.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 4.00	4.00	ug/L							
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L							
Ethylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 4.00	4.00	ug/L							
Dichloromethane (Methylene chloride)	< 2.00	2.00	ug/L							
Styrene	< 4.00	4.00	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 4.00	4.00	ug/L							
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L							
Trichloroethene	< 4.00	4.00	ug/L							
Vinyl chloride	< 10.0	10.0	ug/L							
Xylenes, Total	< 20.0	20.0	ug/L							
Surrogate: Dibromofluoromethane	*19.4*		*ug/L*	*20.00*		*97*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*20.0*		*ug/L*	*20.00*		*100*	*87-127*			
Surrogate: Fluorobenzene	*19.4*		*ug/L*	*20.00*		*97*	*80-116*			
Surrogate: Toluene-d8	*19.2*		*ug/L*	*20.00*		*96*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*11.4*		*ug/L*	*10.00*		*114*	*90-119*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.4*		*ug/L*	*20.00*		*107*	*87-138*			
LCS (B7E0345-BS1)				*Prepared: 05/08/2017 10:01 Analyzed: 05/08/2017 10:38*						
1,1,1-Trichloroethane	78.7	4.00	ug/L	80.00		98	74-131			
1,1,2-Trichloroethane	67.9	4.00	ug/L	80.00		85	83-118			
1,1-Dichloroethene	84.6	2.00	ug/L	80.00		106	71-131			
1,2-Dichloroethane	71.5	2.00	ug/L	80.00		89	73-128			
1,2-Dichloropropane	70.3	4.00	ug/L	80.00		88	78-122			
Benzene	71.7	4.00	ug/L	80.00		90	79-120			
Carbon tetrachloride	75.8	4.00	ug/L	80.00		95	75-125			
Chlorobenzene	71.1	4.00	ug/L	80.00		89	82-118			
cis-1,2-Dichloroethene	76.3	4.00	ug/L	80.00		95	78-123			
Ethylbenzene	75.8	2.00	ug/L	80.00		95	79-121			
Methyl tert-butyl ether	70.2	4.00	ug/L	80.00		88	71-124			
Dichloromethane (Methylene chloride)	72.0	2.00	ug/L	80.00		90	74-124			
Styrene	75.0	4.00	ug/L	80.00		94	78-123			
Tetrachloroethene	71.4	4.00	ug/L	80.00		89	74-129			
Toluene	74.7	4.00	ug/L	80.00		93	80-117			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0345 - SW5030 *(Continued)*										
LCS (B7E0345-BS1) (Continued)				*Prepared: 05/08/2017 10:01*			*Analyzed: 05/08/2017 10:38*			
trans-1,2-Dichloroethene	76.2	4.00	ug/L	80.00		95	75-124			
Trichloroethene	73.3	4.00	ug/L	80.00		92	84-113			
Vinyl chloride	69.9	10.0	ug/L	80.00		87	58-137			
Xylenes, Total	222	20.0	ug/L	240.0		93	79-121			
Surrogate: Dibromofluoromethane	*21.0*		*ug/L*	*20.00*		*105*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*20.6*		*ug/L*	*20.00*		*103*	*87-127*			
Surrogate: Fluorobenzene	*19.6*		*ug/L*	*20.00*		*98*	*80-116*			
Surrogate: Toluene-d8	*19.9*		*ug/L*	*20.00*		*99*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*9.86*		*ug/L*	*10.00*		*99*	*90-119*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.8*		*ug/L*	*20.00*		*99*	*87-138*			
LCS Dup (B7E0345-BSD1)				*Prepared: 05/08/2017 10:01*			*Analyzed: 05/08/2017 11:11*			
1,1,1-Trichloroethane	77.6	4.00	ug/L	80.00		97	74-131	1	20	
1,1,2-Trichloroethane	69.7	4.00	ug/L	80.00		87	83-118	3	20	
1,1-Dichloroethene	83.6	2.00	ug/L	80.00		105	71-131	1	20	
1,2-Dichloroethane	70.2	2.00	ug/L	80.00		88	73-128	2	20	
1,2-Dichloropropane	71.1	4.00	ug/L	80.00		89	78-122	1	20	
Benzene	72.8	4.00	ug/L	80.00		91	79-120	1	20	
Carbon tetrachloride	77.9	4.00	ug/L	80.00		97	75-125	3	20	
Chlorobenzene	71.0	4.00	ug/L	80.00		89	82-118	0.04	20	
cis-1,2-Dichloroethene	74.9	4.00	ug/L	80.00		94	78-123	2	20	
Ethylbenzene	74.7	2.00	ug/L	80.00		93	79-121	1	20	
Methyl tert-butyl ether	70.1	4.00	ug/L	80.00		88	71-124	0.2	20	
Dichloromethane (Methylene chloride)	70.3	2.00	ug/L	80.00		88	74-124	2	20	
Styrene	76.7	4.00	ug/L	80.00		96	78-123	2	20	
Tetrachloroethene	71.2	4.00	ug/L	80.00		89	74-129	0.1	20	
Toluene	73.4	4.00	ug/L	80.00		92	80-117	2	20	
trans-1,2-Dichloroethene	74.0	4.00	ug/L	80.00		92	75-124	3	20	
Trichloroethene	75.1	4.00	ug/L	80.00		94	84-113	2	20	
Vinyl chloride	68.6	10.0	ug/L	80.00		86	58-137	2	20	
Xylenes, Total	222	20.0	ug/L	240.0		93	79-121	0.09	20	
Surrogate: Dibromofluoromethane	*20.1*		*ug/L*	*20.00*		*100*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*20.1*		*ug/L*	*20.00*		*101*	*87-127*			
Surrogate: Fluorobenzene	*19.3*		*ug/L*	*20.00*		*96*	*80-116*			
Surrogate: Toluene-d8	*19.4*		*ug/L*	*20.00*		*97*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*9.90*		*ug/L*	*10.00*		*99*	*90-119*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.4*		*ug/L*	*20.00*		*102*	*87-138*			
Batch: B7F0165 - SW5030										
Blank (B7F0165-BLK1)				*Prepared: 06/05/2017 08:07*			*Analyzed: 06/05/2017 14:36*			
1,1,1-Trichloroethane	< 0.800	0.800	ug/L							

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0165 - SW5030 *(Continued)*										
Blank (B7F0165-BLK1) (Continued)				*Prepared: 06/05/2017 08:07*			*Analyzed: 06/05/2017 14:36*			
1,1,2-Trichloroethane	< 0.800	0.800	ug/L							
1,1-Dichloroethene	< 0.400	0.400	ug/L							
1,2-Dichloroethane	< 0.400	0.400	ug/L							
1,2-Dichloropropane	< 0.800	0.800	ug/L							
Benzene	< 0.800	0.800	ug/L							
Carbon tetrachloride	< 0.800	0.800	ug/L							
Chlorobenzene	< 0.800	0.800	ug/L							
cis-1,2-Dichloroethene	< 0.800	0.800	ug/L							
Ethylbenzene	< 0.400	0.400	ug/L							
Methyl tert-butyl ether	< 0.800	0.800	ug/L							
Dichloromethane (Methylene chloride)	< 0.400	0.400	ug/L							
Styrene	< 0.800	0.800	ug/L							
Tetrachloroethene	< 0.800	0.800	ug/L							
Toluene	< 0.800	0.800	ug/L							
trans-1,2-Dichloroethene	< 0.800	0.800	ug/L							
Trichloroethene	< 0.800	0.800	ug/L							
Vinyl chloride	< 2.00	2.00	ug/L							
Xylenes, Total	< 4.00	4.00	ug/L							
Surrogate: Dibromofluoromethane	*19.5*		*ug/L*	*20.00*		*97*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*20.1*		*ug/L*	*20.00*		*100*	*87-127*			
Surrogate: Fluorobenzene	*19.3*		*ug/L*	*20.00*		*96*	*80-116*			
Surrogate: Toluene-d8	*19.5*		*ug/L*	*20.00*		*97*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*11.4*		*ug/L*	*10.00*		*114*	*90-119*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.5*		*ug/L*	*20.00*		*107*	*87-138*			
LCS (B7F0165-BS1)				*Prepared: 06/05/2017 08:07*			*Analyzed: 06/05/2017 12:09*			
1,1,1-Trichloroethane	15.5	0.800	ug/L	16.00		97	74-131			
1,1,2-Trichloroethane	15.0	0.800	ug/L	16.00		94	83-118			
1,1-Dichloroethene	15.7	0.400	ug/L	16.00		98	71-131			
1,2-Dichloroethane	15.6	0.400	ug/L	16.00		97	73-128			
1,2-Dichloropropane	15.2	0.800	ug/L	16.00		95	78-122			
Benzene	15.2	0.800	ug/L	16.00		95	79-120			
Carbon tetrachloride	15.3	0.800	ug/L	16.00		96	75-125			
Chlorobenzene	15.1	0.800	ug/L	16.00		95	82-118			
cis-1,2-Dichloroethene	15.7	0.800	ug/L	16.00		98	78-123			
Ethylbenzene	15.5	0.400	ug/L	16.00		97	79-121			
Methyl tert-butyl ether	15.2	0.800	ug/L	16.00		95	71-124			
Dichloromethane (Methylene chloride)	15.4	0.400	ug/L	16.00		96	74-124			
Styrene	16.1	0.800	ug/L	16.00		101	78-123			
Tetrachloroethene	15.8	0.800	ug/L	16.00		99	74-129			
Toluene	15.0	0.800	ug/L	16.00		94	80-117			
trans-1,2-Dichloroethene	15.3	0.800	ug/L	16.00		96	75-124			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0165 - SW5030 *(Continued)*										
LCS (B7F0165-BS1) (Continued)				*Prepared: 06/05/2017 08:07*			*Analyzed: 06/05/2017 12:09*			
Trichloroethene	15.9	0.800	ug/L	16.00		99	84-113			
Vinyl chloride	19.7	2.00	ug/L	16.00		123	58-137			
Xylenes, Total	46.6	4.00	ug/L	48.00		97	79-121			
Surrogate: Dibromofluoromethane	*19.5*		*ug/L*	*20.00*		*98*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*19.7*		*ug/L*	*20.00*		*99*	*87-127*			
Surrogate: Fluorobenzene	*19.6*		*ug/L*	*20.00*		*98*	*80-116*			
Surrogate: Toluene-d8	*19.4*		*ug/L*	*20.00*		*97*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*10.5*		*ug/L*	*10.00*		*105*	*90-119*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.5*		*ug/L*	*20.00*		*102*	*87-138*			
LCS Dup (B7F0165-BSD1)				*Prepared: 06/05/2017 08:07*			*Analyzed: 06/05/2017 12:42*			
1,1,1-Trichloroethane	15.8	0.800	ug/L	16.00		99	74-131	2	20	
1,1,2-Trichloroethane	14.7	0.800	ug/L	16.00		92	83-118	2	20	
1,1-Dichloroethene	15.8	0.400	ug/L	16.00		99	71-131	1	20	
1,2-Dichloroethane	15.5	0.400	ug/L	16.00		97	73-128	0.4	20	
1,2-Dichloropropane	15.1	0.800	ug/L	16.00		95	78-122	0.3	20	
Benzene	15.3	0.800	ug/L	16.00		96	79-120	0.8	20	
Carbon tetrachloride	15.9	0.800	ug/L	16.00		99	75-125	4	20	
Chlorobenzene	15.1	0.800	ug/L	16.00		95	82-118	0.09	20	
cis-1,2-Dichloroethene	15.9	0.800	ug/L	16.00		100	78-123	1	20	
Ethylbenzene	15.9	0.400	ug/L	16.00		99	79-121	2	20	
Methyl tert-butyl ether	15.2	0.800	ug/L	16.00		95	71-124	0.2	20	
Dichloromethane (Methylene chloride)	15.1	0.400	ug/L	16.00		95	74-124	2	20	
Styrene	16.1	0.800	ug/L	16.00		101	78-123	0.1	20	
Tetrachloroethene	16.1	0.800	ug/L	16.00		101	74-129	2	20	
Toluene	15.2	0.800	ug/L	16.00		95	80-117	1	20	
trans-1,2-Dichloroethene	15.6	0.800	ug/L	16.00		97	75-124	2	20	
Trichloroethene	16.1	0.800	ug/L	16.00		101	84-113	2	20	
Vinyl chloride	20.1	2.00	ug/L	16.00		125	58-137	2	20	
Xylenes, Total	46.8	4.00	ug/L	48.00		98	79-121	0.5	20	
Surrogate: Dibromofluoromethane	*19.5*		*ug/L*	*20.00*		*98*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*19.9*		*ug/L*	*20.00*		*99*	*87-127*			
Surrogate: Fluorobenzene	*19.4*		*ug/L*	*20.00*		*97*	*80-116*			
Surrogate: Toluene-d8	*19.5*		*ug/L*	*20.00*		*98*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*9.99*		*ug/L*	*10.00*		*100*	*90-119*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.6*		*ug/L*	*20.00*		*98*	*87-138*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E1170										
Blank (B7E1170-BLK1)				*Prepared: 05/19/2017 08:00*		*Analyzed: 05/19/2017 19:53*				
1,2-Dibromo-3-chloropropane	< 0.200	0.200	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.200	0.200	ug/L							
LCS (B7E1170-BS1)				*Prepared: 05/19/2017 08:00*		*Analyzed: 05/19/2017 22:30*				
1,2-Dibromo-3-chloropropane	0.313	0.200	ug/L	0.2500		125	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.215	0.200	ug/L	0.2500		86	70-130			
LCS Dup (B7E1170-BSD1)				*Prepared: 05/19/2017 08:00*		*Analyzed: 05/19/2017 23:01*				
1,2-Dibromo-3-chloropropane	0.321	0.200	ug/L	0.2500		129	70-130	3	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.225	0.200	ug/L	0.2500		90	70-130	5	20	
Batch: B7F0518										
Blank (B7F0518-BLK1)				*Prepared: 06/13/2017 08:00*		*Analyzed: 06/13/2017 20:24*				
1,2-Dibromo-3-chloropropane	< 0.200	0.200	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.200	0.200	ug/L							
LCS (B7F0518-BS1)				*Prepared: 06/13/2017 08:00*		*Analyzed: 06/13/2017 20:55*				
1,2-Dibromo-3-chloropropane	0.230	0.200	ug/L	0.2500		92	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.236	0.200	ug/L	0.2500		94	70-130			
LCS Dup (B7F0518-BSD1)				*Prepared: 06/13/2017 08:00*		*Analyzed: 06/13/2017 21:27*				
1,2-Dibromo-3-chloropropane	0.320	0.200	ug/L	0.2500		128	70-130	33	20	P
Ethylene Dibromide (1,2-Dibromoethane)	0.314	0.200	ug/L	0.2500		126	70-130	29	20	P
Duplicate (B7F0518-DUP1)		**Source: 17E0689-03**		*Prepared: 06/13/2017 08:00*		*Analyzed: 06/14/2017 05:17*				
1,2-Dibromo-3-chloropropane	< 0.0456	0.186	ug/L		ND				200	
Ethylene Dibromide (1,2-Dibromoethane)	< 0.0484	0.186	ug/L		ND				200	
Matrix Spike (B7F0518-MS1)		**Source: 17D0135-14**		*Prepared: 06/13/2017 08:00*		*Analyzed: 06/14/2017 02:09*				
1,2-Dibromo-3-chloropropane	0.269	0.188	ug/L	0.2346	ND	115	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.306	0.188	ug/L	0.2346	ND	130	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0284										
Blank (B7E0284-BLK1)				*Prepared: 05/05/2017 13:43*		*Analyzed: 05/16/2017 03:41*				
Endothall	< 31.0	31.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*327*		*ug/L*	*333.4*		*98*	*20-200*			
LCS (B7E0284-BS1)				*Prepared: 05/05/2017 13:43*		*Analyzed: 05/16/2017 04:41*				
Endothall	318	31.0	ug/L	500.0		64	50-150			
Surrogate: 2,4,6-Tribromophenol	*301*		*ug/L*	*333.4*		*90*	*20-200*			
Duplicate (B7E0284-DUP1)		**Source: 17E0120-12**		*Prepared: 05/08/2017 13:43*		*Analyzed: 05/16/2017 09:41*				
Endothall	< 15.1	31.0	ug/L		ND				20	
Surrogate: 2,4,6-Tribromophenol	*301*		*ug/L*	*333.4*		*90*	*20-200*			
Matrix Spike (B7E0284-MS1)		**Source: 17E0120-16**		*Prepared: 05/05/2017 13:43*		*Analyzed: 05/16/2017 10:42*				
Endothall	178	31.0	ug/L	500.0	ND	36	50-150			S
Surrogate: 2,4,6-Tribromophenol	*329*		*ug/L*	*333.4*		*99*	*20-200*			
Batch: B7E0396 - SW3510										
Blank (B7E0396-BLK1)				*Prepared: 05/10/2017 14:03*		*Analyzed: 05/11/2017 12:05*				
1,2,4-Trichlorobenzene	< 0.800	0.800	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.400	0.400	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.400	0.400	ug/L							
Benzo(a)pyrene	< 0.800	0.800	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 1.00	1.00	ug/L							
Hexachlorocyclopentadiene	< 10.0	10.0	ug/L							
Pentachlorophenol	< 10.0	10.0	ug/L							
Surrogate: 2-Fluorophenol	*1.26*		*ug/L*	*6.667*		*19*	*4-108*			
Surrogate: Phenol-d5	*0.926*		*ug/L*	*6.667*		*14*	*1-101*			
Surrogate: Nitrobenzene-d5	*1.66*		*ug/L*	*6.667*		*25*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*1.88*		*ug/L*	*6.667*		*28*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*1.97*		*ug/L*	*6.667*		*30*	*11-102*			
Surrogate: 4-Terphenyl-d14	*5.46*		*ug/L*	*6.667*		*82*	*79-147*			
Blank (B7E0396-BLK2)				*Prepared: 05/10/2017 14:03*		*Analyzed: 06/16/2017 18:52*				
Surrogate: 2-Fluorophenol	*1.09*		*ug/L*	*6.667*		*16*	*4-108*			
Surrogate: Phenol-d5	*0.686*		*ug/L*	*6.667*		*10*	*1-101*			
Surrogate: Nitrobenzene-d5	*1.49*		*ug/L*	*6.667*		*22*	*23-119*			*S*
Surrogate: 2-Fluorobiphenyl	*1.93*		*ug/L*	*6.667*		*29*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*2.56*		*ug/L*	*6.667*		*38*	*11-102*			
Surrogate: 4-Terphenyl-d14	*5.36*		*ug/L*	*6.667*		*80*	*79-147*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7E0396 - SW3510 *(Continued)*										
LCS (B7E0396-BS1)				*Prepared: 05/10/2017 14:03*			*Analyzed: 05/11/2017 12:39*			
1,2,4-Trichlorobenzene	26.8	4.00	ug/L	50.00		54	40-88			
o-Dichlorobenzene (1,2-Dichlorobenzene)	25.2	2.00	ug/L	50.00		50	39-85			
p-Dichlorobenzene (1,4-Dichlorobenzene)	24.2	2.00	ug/L	50.00		48	37-84			
Benzo(a)pyrene	47.7	4.00	ug/L	50.00		95	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	43.9	25.0	ug/L	50.00		88	46-122			
Hexachlorocyclopentadiene	29.1	10.0	ug/L	50.00		58	19-112			
Pentachlorophenol	43.0	50.0	ug/L	50.00		86	37-112			
Surrogate: 2-Fluorophenol	*12.9*		*ug/L*	*33.34*		*39*	*4-108*			
Surrogate: Phenol-d5	*10.7*		*ug/L*	*33.34*		*32*	*1-101*			
Surrogate: Nitrobenzene-d5	*17.3*		*ug/L*	*33.34*		*52*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*18.8*		*ug/L*	*33.34*		*56*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*28.7*		*ug/L*	*33.34*		*86*	*11-102*			
Surrogate: 4-Terphenyl-d14	*35.6*		*ug/L*	*33.34*		*107*	*79-147*			
LCS Dup (B7E0396-BSD1)				*Prepared: 05/10/2017 14:03*			*Analyzed: 05/11/2017 13:11*			
1,2,4-Trichlorobenzene	23.1	4.00	ug/L	50.00		46	40-88	15	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	21.4	2.00	ug/L	50.00		43	39-85	16	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	21.7	2.00	ug/L	50.00		43	37-84	11	20	
Benzo(a)pyrene	46.2	4.00	ug/L	50.00		92	49-124	3	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	46.6	25.0	ug/L	50.00		93	46-122	6	20	
Hexachlorocyclopentadiene	25.6	10.0	ug/L	50.00		51	19-112	13	20	
Pentachlorophenol	43.4	50.0	ug/L	50.00		87	37-112	1	20	
Surrogate: 2-Fluorophenol	*11.5*		*ug/L*	*33.34*		*35*	*4-108*			
Surrogate: Phenol-d5	*9.22*		*ug/L*	*33.34*		*28*	*1-101*			
Surrogate: Nitrobenzene-d5	*15.2*		*ug/L*	*33.34*		*46*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*16.9*		*ug/L*	*33.34*		*51*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*29.6*		*ug/L*	*33.34*		*89*	*11-102*			
Surrogate: 4-Terphenyl-d14	*35.7*		*ug/L*	*33.34*		*107*	*79-147*			
Batch: B7F0200										
Blank (B7F0200-BLK1)				*Prepared: 06/06/2017 13:26*			*Analyzed: 06/06/2017 15:25*			
Endothall	< 31.0	31.0	ug/L							
Surrogate: 2,4,6-Tribromophenol	*307*		*ug/L*	*333.4*		*92*	*20-200*			
LCS (B7F0200-BS1)				*Prepared: 06/06/2017 13:26*			*Analyzed: 06/06/2017 15:55*			
Endothall	275	31.0	ug/L	500.0		55	50-150			
Surrogate: 2,4,6-Tribromophenol	*313*		*ug/L*	*333.4*		*94*	*20-200*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0200 *(Continued)*										
Duplicate (B7F0200-DUP1)		**Source: 17E0123-01**		*Prepared: 06/06/2017 13:26*			*Analyzed: 06/06/2017 16:55*			
Endothall	< 15.1	31.0	ug/L		ND				20	
Surrogate: 2,4,6-Tribromophenol	*254*		*ug/L*	*333.4*		*76*	*20-200*			
Matrix Spike (B7F0200-MS1)		**Source: 17E0123-02**		*Prepared: 06/06/2017 13:26*			*Analyzed: 06/06/2017 17:55*			
Endothall	71.5	31.0	ug/L	500.0	ND	14	50-150			S
Surrogate: 2,4,6-Tribromophenol	*339*		*ug/L*	*333.4*		*102*	*20-200*			
Batch: B7F0262 - SW3510										
Blank (B7F0262-BLK1)				*Prepared: 06/07/2017 15:26*			*Analyzed: 06/09/2017 12:47*			
1,2,4-Trichlorobenzene	< 0.800	0.800	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 0.400	0.400	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 0.400	0.400	ug/L							
Benzo(a)pyrene	< 0.800	0.800	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 5.00	5.00	ug/L							
Hexachlorocyclopentadiene	< 2.00	2.00	ug/L							
Pentachlorophenol	< 10.0	10.0	ug/L							
Surrogate: 2-Fluorophenol	*2.13*		*ug/L*	*6.667*		*32*	*4-108*			
Surrogate: Phenol-d5	*1.45*		*ug/L*	*6.667*		*22*	*1-101*			
Surrogate: Nitrobenzene-d5	*2.64*		*ug/L*	*6.667*		*40*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*2.53*		*ug/L*	*6.667*		*38*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*3.29*		*ug/L*	*6.667*		*49*	*11-102*			
Surrogate: 4-Terphenyl-d14	*6.30*		*ug/L*	*6.667*		*94*	*79-147*			
LCS (B7F0262-BS1)				*Prepared: 06/07/2017 15:26*			*Analyzed: 06/09/2017 13:27*			
1,2,4-Trichlorobenzene	37.9	4.00	ug/L	50.00		76	40-88			
o-Dichlorobenzene (1,2-Dichlorobenzene)	37.7	2.00	ug/L	50.00		75	39-85			
p-Dichlorobenzene (1,4-Dichlorobenzene)	37.2	2.00	ug/L	50.00		74	37-84			
Benzo(a)pyrene	49.8	4.00	ug/L	50.00		100	49-124			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	61.6	25.0	ug/L	50.00		123	46-122			S
Hexachlorocyclopentadiene	45.8	10.0	ug/L	50.00		92	19-112			
Pentachlorophenol	40.1	50.0	ug/L	50.00		80	37-112			
Surrogate: 2-Fluorophenol	*25.0*		*ug/L*	*33.34*		*75*	*4-108*			
Surrogate: Phenol-d5	*17.9*		*ug/L*	*33.34*		*54*	*1-101*			
Surrogate: Nitrobenzene-d5	*30.9*		*ug/L*	*33.34*		*93*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*27.0*		*ug/L*	*33.34*		*81*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*33.6*		*ug/L*	*33.34*		*101*	*11-102*			
Surrogate: 4-Terphenyl-d14	*40.3*		*ug/L*	*33.34*		*121*	*79-147*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
2Q 2017
Work Order: 17E0123

Report Date: 07/10/2017
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7F0262 - SW3510 *(Continued)*										
LCS Dup (B7F0262-BSD1)				*Prepared: 06/07/2017 15:26*			*Analyzed: 06/09/2017 14:08*			
1,2,4-Trichlorobenzene	36.0	4.00	ug/L	50.00		72	40-88	5	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	35.4	2.00	ug/L	50.00		71	39-85	6	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	35.7	2.00	ug/L	50.00		71	37-84	4	20	
Benzo(a)pyrene	47.0	4.00	ug/L	50.00		94	49-124	6	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	58.6	25.0	ug/L	50.00		117	46-122	5	20	
Hexachlorocyclopentadiene	43.1	10.0	ug/L	50.00		86	19-112	6	20	
Pentachlorophenol	39.8	50.0	ug/L	50.00		80	37-112	0.7	20	
Surrogate: 2-Fluorophenol	*23.3*		*ug/L*	*33.34*		*70*	*4-108*			
Surrogate: Phenol-d5	*16.6*		*ug/L*	*33.34*		*50*	*1-101*			
Surrogate: Nitrobenzene-d5	*28.8*		*ug/L*	*33.34*		*86*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*24.8*		*ug/L*	*33.34*		*75*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*32.8*		*ug/L*	*33.34*		*98*	*11-102*			
Surrogate: 4-Terphenyl-d14	*38.1*		*ug/L*	*33.34*		*114*	*79-147*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SM4500-H in Water		
pH		DoD,ILEPA,WDNR
SW6020A in Water		
Antimony	7440-36-0	DoD,ILEPA,ISO,WDNR,NJDEP
Arsenic	7440-38-2	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Barium	7440-39-3	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Beryllium	7440-41-7	DoD,ILEPA,ISO,WDNR,NJDEP
Boron	7440-42-8	DoD,ILEPA,WDNR,NJDEP
Cadmium	7440-43-9	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Calcium	7440-70-2	DoD,ILEPA,NJDEP
Chromium	7440-47-3	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Cobalt	7440-48-4	DoD,ILEPA,ISO,WDNR,NJDEP
Copper	7440-50-8	DoD,ILEPA,ISO,WDNR,NJDEP
Iron	7439-89-6	DoD,ILEPA,ISO,WDNR,NJDEP
Lead	7439-92-1	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Manganese	7439-96-5	DoD,ILEPA,ISO,WDNR,NJDEP
Molybdenum	7439-98-7	DoD,ILEPA,WDNR,NJDEP
Nickel	7440-02-0	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Selenium	7782-49-2	DoD,ILEPA,ISO,WDNR,NJDEP
Silver	7440-22-4	DoD,ILEPA,ISO,WDNR,NJDEP
Thallium	7440-28-0	DoD,ILEPA,ISO,WDNR,NJDEP
Zinc	7440-66-6	DoD,ILEPA,ISO,WDNR,NJDEP
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR,NJDEP
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water		
Aroclor 1016	12674-11-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1221	11104-28-2	WDNR,AKDEC,DoD,ILEPA
Aroclor 1232	11141-16-5	WDNR,AKDEC,DoD,ILEPA
Aroclor 1242	53469-21-9	WDNR,AKDEC,DoD,ILEPA
Aroclor 1248	12672-29-6	WDNR,AKDEC,DoD,ILEPA
Aroclor 1254	11097-69-1	WDNR,AKDEC,DoD,ILEPA
Aroclor 1260	11096-82-5	WDNR,AKDEC,DoD,ILEPA
Total PCB	1336-36-3	WDNR,AKDEC,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Benzene	71-43-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,DoD,ILEPA
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Styrene	100-42-5	LELAP,WDNR,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,LELAP,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,DoD,ILEPA
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
SW8321B in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem in Water		

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW9014 by Aquachem in Water (Continued)		
Cyanide	57-12-5	DoD,ILEPA,WDNR,NJDEP
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR,NJDEP
Fluoride	16984-48-8	DoD,ILEPA,WDNR,NJDEP
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR,NJDEP
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR,NJDEP
SW9065 by Aquachem in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR,NJDEP

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2017
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2018
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2018
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	07/27/2017
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2018
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2017
NJDEP	State of New Jersey, NELAP Accredited Lab No. IL010	NLC160001	06/30/2017
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2017

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Qualifiers and Definitions

Item	Description
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

Environmental Monitoring and Technologies, Inc.

CHAIN OF CUSTODY

17E0123

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

Page 1 of 1

Lab Work Order Number : ###

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C Loh	Sampler Signature

Requested Analyses: 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH; 2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4; 504_DBCP_EDB; 531_CARBAMATES; 548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB; 6020_Ag::6020_As::6020_Ba::6020_Be::6020_Cd::6020_Co::6020_Cr::6020_Cu::6020_Fe::6020_Mn::6020_Mo::6020_Ni::6020_Pb::6020_Sb::6020_Se::6020_Tl::6020_V::7470_MERCURY; 8260B_VOC; 9014_CYANIDE; 9065_PHENOL

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. | Standard (days) | Expedited (days) | Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2	pH	Sample Comments
AW-3			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-1			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-2			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-3			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-4	05/05/17	0930	GRAB	GW	20	1	1	2	1	7	1	3	1	1	7.08	05 ABCDEFGHIJKL MNOPQRS
AP-5	05/05/17	1040	GRAB	GW	20	1	1	2	1	7	1	3	1	1	7.36	06 ABCDEFGHIJK MNOPQRS

Relinquished By	Date/Time	Received By	Date/Time
	5/5/17 1410		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
		Ch Ch 14:25	5/5/17

Cooler Numbers and Temperature: 4.0

Comments: All bottles A-S Received

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) =12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

PH 7 = 7.00 @ 0715

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Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

CHAIN OF CUSTODY

17E0123

Page 1 of 1

Lab Work Order Number : ###

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler J. Jackson	Sampler Signature

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days). Expedited (days). Due Date.

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2	pH	Sample Comments
AW-3	05/31/17	0935	GRAB	GW	20	1	1	2	1	7	1	3	1	1	7.21	01 ABCDEFGHIJKLMNOP QRS
AP-1	05/31/17	0815	GRAB	GW	20	1	1	2	1	7	1	3	1	1	6.72	02 ABCDEFGHIJKLMNOP QRS
AP-2	05/31/17	0750	GRAB	GW	20	1	1	2	1	7	1	3	1	1	6.60	03 ABCDEFGHIJKLMNOP QRS
AP-3	05/31/17	0845	GRAB	GW	20	1	1	2	1	7	1	3	1	1	6.55	04 ABCDEFGHIJKLMNOP QRS
AP-4			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-5			GRAB	GW	20	1	1	2	1	7	1	3	1	1		

Relinquished By	Date/Time	Received By	Date/Time
J. Jackson	5/31/17 1405		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
		[signature] 14:05	5/31/17

Cooler Numbers and Temperatures: 5.2

Comments:

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

pH=7.00 @ 1230 on 05/30/17

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	NE-OS-05-04
Arizona	AZ0432	Nevada	IN00035
Arkansas	IN00035	New Hampshire*	2124
California	2920	New Jersey*	IN598
Colorado	IN035	New Mexico	IN00035
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon (Primary AB)*	4074-001
Idaho	IN00035	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	17767	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 05/15/2017

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eurofins | Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 388293
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3690235	17E0123-05	7500-Ra B	05/05/17 09:30	Client	05/09/17 09:45
3690235	17E0123-05	7500-Ra D	05/05/17 09:30	Client	05/09/17 09:45
3690236	17E0123-06	7500-Ra B	05/05/17 10:40	Client	05/09/17 09:45
3690236	17E0123-06	7500-Ra D	05/05/17 10:40	Client	05/09/17 09:45

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jim Van Fleit ASM

Authorized Signature | Title

06/05/2017

Date

Client Name: Environmental Monitoring Technologies
Report #: 388293

Electronic Filing: Received, Clerk's Office 01/29/2020

Client Name: Environmental Monitoring Technologies Report #: 388293

Sampling Point: 17E0123-05 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.16	1.0	**0.63 ± 0.24**	pCi/L	05/18/17 08:57	05/30/17 11:23	3690235
15262-20-1	Radium-228	7500-Ra D	---	0.57	1.0	**0.73 ± 0.58**	pCi/L	05/17/17 09:00	06/01/17 14:04	3690235
---	Combined Radium	calc.	5 *	0.57	1.0	**1.36 ± 0.63**	pCi/L	05/18/17 08:57	06/01/17 14:04	3690235

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17E0123-06 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.15	1.0	**0.55 ± 0.23**	pCi/L	05/18/17 08:57	05/30/17 12:29	3690236
15262-20-1	Radium-228	7500-Ra D	---	0.53	1.0	**1.2 ± 0.6**	pCi/L	05/17/17 09:00	06/01/17 14:04	3690236
---	Combined Radium	calc.	5 *	0.53	1.0	**1.75 ± 0.61**	pCi/L	05/18/17 08:57	06/01/17 14:04	3690236

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

319233

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17E0123

388293

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins-Eaton (Underwriters), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

Analysis	Due – Standard Turn	Expires	Laboratory ID	Comments
AW-3				
Sample ID: 17E0123-01 Water	**Sampled:01/01/53 00:00**			
Radiation Testing, Subcontracted	06/14/17 23:59	01/31/53 00:00		PO # 60772 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to			
AP-1				
Sample ID: 17E0123-02 Water	**Sampled:01/01/53 00:00**			
Radiation Testing, Subcontracted	06/14/17 23:59	01/31/53 00:00		PO # 60772 for Radium 226 and 228
Containers Supplied:				no samples collected – no samples received ES 5-9-17
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to			
AP-2				
Sample ID: 17E0123-03 Water	**Sampled:01/01/53 00:00**			
Radiation Testing, Subcontracted	06/14/17 23:59	01/31/53 00:00		PO # 60772 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to			
AP-3				
Sample ID: 17E0123-04 Water	**Sampled:01/01/53 00:00**			
Radiation Testing, Subcontracted	06/14/17 23:59	01/31/53 00:00		PO # 60772 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to			
AP-4			3690235	
Sample ID: 17E0123-05 Water	**Sampled:05/05/17 09:30**			
Radiation Testing, Subcontracted	~~06/14/17 23:59~~	06/04/17 09:30		PO # 60772 for Radium 226 and 228
Containers Supplied:				(2) pH<2 ss
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to			
AP-5			3690236	
Sample ID: 17E0123-06 Water	**Sampled:05/05/17 10:40**			
Radiation Testing, Subcontracted	~~06/14/17 23:~~59	06/04/17 10:40		PO # 60772 for Radium 226 and 228
Containers Supplied:				(2) pH<2 ss
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to			

Liters Received = 2 each site

PO # 60772 for 2 samples for Radium 226 and 228.

Released By	Date	Received By	Date
	5/8/17		5-9-17 0945
Released By	Date	Received By	Date

Client Provided Sample Container

Cross Off on COC by Client

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	NE-OS-05-04
Arizona	AZ0432	Nevada	IN00035
Arkansas	IN00035	New Hampshire*	2124
California	2920	New Jersey*	IN598
Colorado	IN035	New Mexico	IN00035
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon (Primary AB)*	4074-001
Idaho	IN00035	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	17767	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 05/15/2017

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 389870
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3705284	17E0123-01	7500-Ra B	05/31/17 09:35	Client	06/02/17 10:00
3705284	17E0123-01	7500-Ra D	05/31/17 09:35	Client	06/02/17 10:00
3705285	17E0123-02	7500-Ra B	05/31/17 08:15	Client	06/02/17 10:00
3705285	17E0123-02	7500-Ra D	05/31/17 08:15	Client	06/02/17 10:00
3705286	17E0123-03	7500-Ra B	05/31/17 07:50	Client	06/02/17 10:00
3705286	17E0123-03	7500-Ra D	05/31/17 07:50	Client	06/02/17 10:00
3705287	17E0123-04	7500-Ra B	05/31/17 08:45	Client	06/02/17 10:00
3705287	17E0123-04	7500-Ra D	05/31/17 08:45	Client	06/02/17 10:00

Report Summary

Note: Sample containers were provided by the client.

Note: In the Method 7500-Ra B analysis of EEA sample 3705284, the sample had a dirty matrix, which resulted in a high biased barium carrier recovery. Results may be low biased. The barium carrier limits are 34.8-69.0 mg. The sample barium precipitate is 77.3 mg.

Note: In the Method 7500-Ra B analysis of EEA sample 3705286, the sample had a dirty matrix, which resulted in a high biased barium carrier recovery. Results may be low biased. The barium carrier limits are 34.8-69.0 mg. The sample barium precipitate is 74.0 mg.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jim Van Fleit ASM

Authorized Signature | Title

06/29/2017
Date

Client Name: Environmental Monitoring Technologies
Report #: 389870

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Client Name: Environmental Monitoring Technologies Report #: 389870

Sampling Point: 17E0123-01 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.17	1.0	**0.18 ± 0.17**	pCi/L	06/15/17 12:00	06/20/17 09:42	3705284
15262-20-1	Radium-228	7500-Ra D	---	0.55	1.0	**0.62 ± 0.55**	pCi/L	06/15/17 12:00	06/23/17 16:21	3705284
---	Combined Radium	calc.	5 *	0.55	1.0	**0.80 ± 0.58**	pCi/L	06/15/17 12:00	06/23/17 16:21	3705284

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17E0123-02 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.14	1.0	**0.72 ± 0.24**	pCi/L	06/15/17 12:00	06/20/17 09:42	3705285
15262-20-1	Radium-228	7500-Ra D	---	0.62	1.0	0.58 ± 0.62	pCi/L	06/15/17 12:00	06/23/17 16:21	3705285
---	Combined Radium	calc.	5 *	0.62	1.0	**1.30 ± 0.66**	pCi/L	06/15/17 12:00	06/23/17 16:21	3705285

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17E0123-03 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.18	1.0	**0.42 ± 0.22**	pCi/L	06/15/17 12:00	06/20/17 09:42	3705286
15262-20-1	Radium-228	7500-Ra D	---	0.59	1.0	**0.96 ± 0.61**	pCi/L	06/15/17 12:00	06/23/17 16:21	3705286
---	Combined Radium	calc.	5 *	0.59	1.0	**1.38 ± 0.65**	pCi/L	06/15/17 12:00	06/23/17 16:21	3705286

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17E0123-04 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.15	1.0	**0.55 ± 0.23**	pCi/L	06/15/17 12:00	06/20/17 09:42	3705287
15262-20-1	Radium-228	7500-Ra D	---	0.52	1.0	0.47 ± 0.51	pCi/L	06/15/17 12:00	06/23/17 16:21	3705287
---	Combined Radium	calc.	5 *	0.52	1.0	**1.02 ± 0.56**	pCi/L	06/15/17 12:00	06/23/17 16:21	3705287

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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320532

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17E0123

389870

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins-Eaton (Underwriters), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

Analysis	Due — Standard	Expires	Laboratory ID	Comments
AW-3				
Sample ID: 17E0123-01 Water	**Sampled:05/31/17 09:35**		3705284	
Radiation Testing, Subcontracted	07/11/17 23:59	06/30/17 09:35		PO # 60799 for Radium 226 and 228
Containers Supplied:				(2) pH<2 ss
32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t				
AP-1				
Sample ID: 17E0123-02 Water	**Sampled:05/31/17 08:15**		3705285	
Radiation Testing, Subcontracted	07/11/17 23:59	06/30/17 08:15		PO # 60799 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t				
AP-2				
Sample ID: 17E0123-03 Water	**Sampled:05/31/17 07:50**		3705286	
Radiation Testing, Subcontracted	07/11/17 23:59	06/30/17 07:50		PO # 60799 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t				
AP-3				
Sample ID: 17E0123-04 Water	**Sampled:05/31/17 08:45**		3705287	
Radiation Testing, Subcontracted	07/11/17 23:59	06/30/17 08:45		PO # 60799 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t				
AP-4				
Sample ID: 17E0123-05 Water	**Sampled:05/05/17 09:30**			
Radiation Testing, Subcontracted	07/11/17 23:59	06/04/17 09:30		PO # 60772 for Radium 226 and 228
Containers Supplied:				sent prior
32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t				NO Sample received SS 6-2-17
AP-5				
Sample ID: 17E0123-06 Water	**Sampled:05/05/17 10:40**			
Radiation Testing, Subcontracted	07/11/17 23:59	06/04/17 10:40		PO # 60772 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t 32 oz HDPE, 1:1 HNO3 t				

Liters Received = 2 each

PO # 60799 for 4 samples for Radium 226 and 228

Site SS 6-2-17

Client Provided Sample Container

Released By	Date	Received By	Date
	6/1/17	6-2-17 1000	
Released By	Date	Received By	Date

Cross Off on COC by Client Ambient

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Sue Corcoran
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

October 04, 2017

Work Order: 17H0132

RE: List G20
3Q 2017

Dear Sue Corcoran:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 10/3/2017 3:24:26PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674

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Sample Summary

Sample ID	Sub Lab	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3		17H0132-01	Groundwater	08/02/17 09:00	08/03/17 14:00
AP-1		17H0132-02	Groundwater	08/02/17 08:00	08/03/17 14:00
AP-2		17H0132-03	Groundwater	08/02/17 08:55	08/03/17 14:00
AP-3		17H0132-04	Groundwater	08/02/17 08:05	08/03/17 14:00
AP-4		17H0132-05	Groundwater	08/02/17 10:05	08/03/17 14:00
AP-5		17H0132-06	Groundwater	08/03/17 11:00	08/03/17 14:00
AW-3	Eurofins-Eaton (Underwriters	17H0132-01	Groundwater	08/02/17 09:00	08/03/17 14:00
AP-1	Eurofins-Eaton (Underwriters	17H0132-02	Groundwater	08/02/17 08:00	08/03/17 14:00
AP-2	Eurofins-Eaton (Underwriters	17H0132-03	Groundwater	08/02/17 08:55	08/03/17 14:00
AP-3	Eurofins-Eaton (Underwriters	17H0132-04	Groundwater	08/02/17 08:05	08/03/17 14:00
AP-4	Eurofins-Eaton (Underwriters	17H0132-05	Groundwater	08/02/17 10:05	08/03/17 14:00
AP-5	Eurofins-Eaton (Underwriters	17H0132-06	Groundwater	08/03/17 11:00	08/03/17 14:00

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Case Narrative

Client: City, Water, Light & Power **Date:** 10/04/2017
Project: List G20
3Q 2017
Work Order: 17H0132

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 17H0132
The samples were received on08/03/17 14:00. The samples arrived in good condition. Samples were split and preserved or extra preservative was added at receipt- refer to the checklist. The temperature of the cooler at receipt was

Cooler	Temp C°
8/2/17 @14:00	2.2
8/4/17 @18:15	4.2

degrees C.

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed.

Samples 17H0132-01, 02, and 06 were decanted prior to the Radium 226 and 228 analysis due to the sediment in the samples that would interfere with the test.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles

Method: 8082A_PCB, S7H0196-CCV1: The recovery surrogate Decachlorobiphenyl in the continuing calibration verification (CCV) was 123%, above the 120% laboratory control limit.

Method: 8082A_PCB, S7H0196-CCV3: The recovery surrogate Decachlorobiphenyl in the bracketing CCV was 124%, above the 120% laboratory control limit.

HPLC

Method: 8321_HERB, S7H0235-CCV4: The recoveries of some compounds in the bracketing CCV were above the limits, however these compounds were not reported in the associated samples.

GC Semivolatiles

Method: 8081B_PEST, B7H0199-BS1/BSD1: RPDs for some spike compounds were outside of the limits. The compounds in question were not detected in the associated samples.

Method: 8081B_PEST, S7H0478-CCV3: The recoveries of two compounds in the bracketing continuing calibration verification (CCV) were above the laboratory control limits. However, the compounds in question were not detected in the associated samples.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AW-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 09:00
Matrix: Groundwater
Lab ID: 17H0132-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**696**			uS/cm	08/02/17 09:00	B7H0619	JJ1
Method: SM2550-B							
Temperature	**62.9**			°F	08/02/17 09:00	B7H0619	JJ1
Method: SM4500-H							
pH	**7.26**	0.05		pH Units	08/02/17 09:00	B7H0619	JJ1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	08/08/17 18:27	B7H0278	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Arsenic	**157**	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Barium	**221**	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Beryllium	< 2.50	2.50		ug/L	08/14/17 11:44	B7H0226	AG
Boron	**173**	12.5		ug/L	08/14/17 11:44	B7H0226	AG
Cadmium	< 2.50	2.50		ug/L	08/14/17 11:44	B7H0226	AG
Calcium	**5.08**	0.125		mg/L	08/14/17 12:38	B7H0226	AG
Chromium	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Cobalt	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Copper	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Iron	**16600**	125		ug/L	08/14/17 11:44	B7H0226	AG
Lead	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Manganese	**547**	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/14/17 11:44	B7H0226	AG
Nickel	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Selenium	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Silver	< 2.50	2.50		ug/L	08/14/17 11:44	B7H0226	AG
Thallium	< 25.0	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Zinc	**27.2**	25.0		ug/L	08/14/17 11:44	B7H0226	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/09/17 16:35	B7H0333	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**27.1**	3.00		mg/L	08/03/17 10:02	B7H0106	NB1
Fluoride	**0.500**	0.500		mg/L	08/03/17 10:02	B7H0106	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/03/17 10:02	B7H0106	NB1
Sulfate	< 5.00	5.00		mg/L	08/03/17 10:02	B7H0106	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AW-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 09:00
Matrix: Groundwater
Lab ID: 17H0132-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	462	10.0		mg/L		08/04/17 09:00	B7H0181	CP1
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/04/17 10:13	B7H0146	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/07/17 14:53	B7H0219	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.492	0.492		ug/L		08/09/17 17:59	B7H0199	LP
Atrazine	< 0.492	0.492		ug/L		08/09/17 17:59	B7H0199	LP
Chlordane	< 0.492	0.492		ug/L		08/09/17 17:59	B7H0199	LP
Endrin	< 0.0492	0.0492		ug/L		08/09/17 17:59	B7H0199	LP
gamma-BHC	< 0.0492	0.0492		ug/L		08/09/17 17:59	B7H0199	LP
Heptachlor	< 0.0492	0.0492		ug/L		08/09/17 17:59	B7H0199	LP
Heptachlor epoxide	< 0.0492	0.0492		ug/L		08/09/17 17:59	B7H0199	LP
Methoxychlor	< 0.0492	0.0492		ug/L		08/09/17 17:59	B7H0199	LP
Simazine	< 0.492	0.492		ug/L		08/09/17 17:59	B7H0199	LP
Toxaphene	< 1.97	1.97		ug/L		08/09/17 17:59	B7H0199	LP
Surrogate: Decachlorobiphenyl				*Recovery: 85%*	*Limits: 30-109*	*08/09/17 17:59*	*B7H0199*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 46%*	*Limits: 21-124*	*08/09/17 17:59*	*B7H0199*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Aroclor 1221	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Aroclor 1232	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Aroclor 1242	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Aroclor 1248	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Aroclor 1254	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Aroclor 1260	< 0.295	0.295		ug/L		08/09/17 15:11	B7H0200	CS2
Total PCB	< 0.983	0.983		ug/L		08/09/17 15:11	B7H0200	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 119%*	*Limits: 40-135*	*08/09/17 15:11*	*B7H0200*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 58%*	*Limits: 13-133*	*08/09/17 15:11*	*B7H0200*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/08/17 12:37	B7H0422	MNN
Carbofuran	< 2.00	2.00		ug/L		08/08/17 12:37	B7H0422	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.86	1.86		ug/L		08/14/17 13:36	B7H0385	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AW-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 09:00
Matrix: Groundwater
Lab ID: 17H0132-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.86	1.86		ug/L		08/14/17 13:36	B7H0385	MNN
Dinoseb	< 1.86	1.86		ug/L		08/14/17 13:36	B7H0385	MNN
Picloram	< 1.86	1.86		ug/L		08/14/17 13:36	B7H0385	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 79%*	*Limits: 37-128*	*08/14/17 13:36*	*B7H0385*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		08/04/17 03:29	B7H0290	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		08/04/17 03:29	B7H0290	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Benzene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Chlorobenzene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Ethylbenzene	< 0.400	0.400		ug/L		08/04/17 03:29	B7H0290	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Dichloromethane	< 0.400	0.400		ug/L		08/04/17 03:29	B7H0290	FP1
Styrene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Toluene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Trichloroethene	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Vinyl chloride	< 0.800	0.800		ug/L		08/04/17 03:29	B7H0290	FP1
Xylenes, Total	< 4.00	4.00		ug/L		08/04/17 03:29	B7H0290	FP1
Surrogate: Dibromofluoromethane				*Recovery: 100%*	*Limits: 84-137*	*08/04/17 03:29*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 103%*	*Limits: 87-127*	*08/04/17 03:29*	*B7H0290*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 101%*	*Limits: 80-116*	*08/04/17 03:29*	*B7H0290*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 85-112*	*08/04/17 03:29*	*B7H0290*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 90-119*	*08/04/17 03:29*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 100%*	*Limits: 87-138*	*08/04/17 03:29*	*B7H0290*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.189	0.189		ug/L		08/29/17 15:51	B7I0063	LP
Ethylene Dibromide	< 0.189	0.189		ug/L		08/29/17 15:51	B7I0063	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AW-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 09:00
Matrix: Groundwater
Lab ID: 17H0132-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		08/29/17 12:39	B7H1061	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 119%*	*Limits: 70-130*	*08/29/17 12:39*	*B7H1061*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.08	4.08		ug/L		08/10/17 12:58	B7H0414	JN1
o-Dichlorobenzene	< 2.04	2.04		ug/L		08/10/17 12:58	B7H0414	JN1
p-Dichlorobenzene	< 2.04	2.04		ug/L		08/10/17 12:58	B7H0414	JN1
Benzo(a)pyrene	< 4.08	4.08		ug/L		08/10/17 12:58	B7H0414	JN1
Di(2-ethylhexyl)phthalate	< 25.5	25.5		ug/L		08/10/17 12:58	B7H0414	JN1
Hexachlorocyclopentadiene	< 10.2	10.2		ug/L		08/10/17 12:58	B7H0414	JN1
Pentachlorophenol	< 51.0	51.0		ug/L		08/10/17 12:58	B7H0414	JN1
Surrogate: 2-Fluorophenol				*Recovery: 38%*	*Limits: 4-108*	*08/10/17 12:58*	*B7H0414*	*JN1*
Surrogate: Phenol-d5				*Recovery: 27%*	*Limits: 1-101*	*08/10/17 12:58*	*B7H0414*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 46%*	*Limits: 23-119*	*08/10/17 12:58*	*B7H0414*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 46%*	*Limits: 28-124*	*08/10/17 12:58*	*B7H0414*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 44%*	*Limits: 11-102*	*08/10/17 12:58*	*B7H0414*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 103%*	*Limits: 79-147*	*08/10/17 12:58*	*B7H0414*	*JN1*
Eurofins-Eaton (Underwriters), Subcontract								
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 9.0	9		ug/L		08/10/17 00:00	17H0132-01	UL
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.81**	0.2		pCi/L		08/31/17 00:00	17H0132-01	UL
Radium-228	**1.7**	0.49		pCi/L		08/31/17 00:00	17H0132-01	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-1
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:00
Matrix: Groundwater
Lab ID: 17H0132-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1510**			uS/cm	08/02/17 08:00	B7H0619	JJ1
Method: SM2550-B							
Temperature	**62.2**			°F	08/02/17 08:00	B7H0619	JJ1
Method: SM4500-H							
pH	**6.59**	0.05		pH Units	08/02/17 08:00	B7H0619	JJ1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	08/08/17 17:50	B7H0278	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Arsenic	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Barium	**727**	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Beryllium	< 2.50	2.50		ug/L	08/14/17 11:45	B7H0226	AG
Boron	**19400**	12.5		ug/L	08/14/17 11:45	B7H0226	AG
Cadmium	< 2.50	2.50		ug/L	08/14/17 11:45	B7H0226	AG
Calcium	**15.0**	0.125		mg/L	08/14/17 12:39	B7H0226	AG
Chromium	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Cobalt	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Copper	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Iron	**1860**	125		ug/L	08/14/17 12:39	B7H0226	AG
Lead	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Manganese	**448**	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/14/17 11:45	B7H0226	AG
Nickel	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Selenium	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Silver	< 2.50	2.50		ug/L	08/14/17 11:45	B7H0226	AG
Thallium	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Zinc	< 25.0	25.0		ug/L	08/14/17 11:45	B7H0226	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/09/17 16:37	B7H0333	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**50.2**	3.00		mg/L	08/03/17 10:31	B7H0106	NB1
Fluoride	< 0.500	0.500		mg/L	08/03/17 10:31	B7H0106	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/03/17 10:31	B7H0106	NB1
Sulfate	**672**	50.0		mg/L	08/05/17 07:30	B7H0150	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-1
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:00
Matrix: Groundwater
Lab ID: 17H0132-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1450**	10.0		mg/L		08/04/17 09:00	B7H0181	CP1
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/04/17 10:13	B7H0146	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/07/17 14:53	B7H0219	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.493	0.493		ug/L		08/09/17 18:45	B7H0199	LP
Atrazine	< 0.493	0.493		ug/L		08/09/17 18:45	B7H0199	LP
Chlordane	< 0.493	0.493		ug/L		08/09/17 18:45	B7H0199	LP
Endrin	< 0.0493	0.0493		ug/L		08/09/17 18:45	B7H0199	LP
gamma-BHC	< 0.0493	0.0493		ug/L		08/09/17 18:45	B7H0199	LP
Heptachlor	< 0.0493	0.0493		ug/L		08/09/17 18:45	B7H0199	LP
Heptachlor epoxide	< 0.0493	0.0493		ug/L		08/09/17 18:45	B7H0199	LP
Methoxychlor	< 0.0493	0.0493		ug/L		08/09/17 18:45	B7H0199	LP
Simazine	< 0.493	0.493		ug/L		08/09/17 18:45	B7H0199	LP
Toxaphene	< 1.97	1.97		ug/L		08/09/17 18:45	B7H0199	LP
Surrogate: Decachlorobiphenyl				*Recovery: 87%*	*Limits: 30-109*	*08/09/17 18:45*	*B7H0199*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 52%*	*Limits: 21-124*	*08/09/17 18:45*	*B7H0199*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Aroclor 1221	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Aroclor 1232	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Aroclor 1242	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Aroclor 1248	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Aroclor 1254	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Aroclor 1260	< 0.296	0.296		ug/L		08/09/17 14:44	B7H0200	CS2
Total PCB	< 0.986	0.986		ug/L		08/09/17 14:44	B7H0200	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 40-135*	*08/09/17 14:44*	*B7H0200*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 52%*	*Limits: 13-133*	*08/09/17 14:44*	*B7H0200*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/04/17 13:09	B7H0108	MNN
Carbofuran	< 2.00	2.00		ug/L		08/04/17 13:09	B7H0108	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.84	1.84		ug/L		08/14/17 14:18	B7H0385	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-1
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:00
Matrix: Groundwater
Lab ID: 17H0132-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.84	1.84		ug/L		08/14/17 14:18	B7H0385	MNN
Dinoseb	< 1.84	1.84		ug/L		08/14/17 14:18	B7H0385	MNN
Picloram	< 1.84	1.84		ug/L		08/14/17 14:18	B7H0385	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 70%*	*Limits: 37-128*	*08/14/17 14:18*	*B7H0385*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		08/04/17 04:03	B7H0290	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		08/04/17 04:03	B7H0290	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Benzene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Chlorobenzene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Ethylbenzene	< 0.400	0.400		ug/L		08/04/17 04:03	B7H0290	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Dichloromethane	< 0.400	0.400		ug/L		08/04/17 04:03	B7H0290	FP1
Styrene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Toluene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Trichloroethene	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Vinyl chloride	< 0.800	0.800		ug/L		08/04/17 04:03	B7H0290	FP1
Xylenes, Total	< 4.00	4.00		ug/L		08/04/17 04:03	B7H0290	FP1
Surrogate: Dibromofluoromethane				*Recovery: 101%*	*Limits: 84-137*	*08/04/17 04:03*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 106%*	*Limits: 87-127*	*08/04/17 04:03*	*B7H0290*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*08/04/17 04:03*	*B7H0290*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 85-112*	*08/04/17 04:03*	*B7H0290*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 90-119*	*08/04/17 04:03*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 100%*	*Limits: 87-138*	*08/04/17 04:03*	*B7H0290*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		08/29/17 16:53	B7I0063	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		08/29/17 16:53	B7I0063	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-1
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:00
Matrix: Groundwater
Lab ID: 17H0132-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		08/29/17 14:32	B7H1061	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 114%*	*Limits: 70-130*	*08/29/17 14:32*	*B7H1061*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.13	4.13		ug/L		08/10/17 13:31	B7H0414	JN1
o-Dichlorobenzene	< 2.07	2.07		ug/L		08/10/17 13:31	B7H0414	JN1
p-Dichlorobenzene	< 2.07	2.07		ug/L		08/10/17 13:31	B7H0414	JN1
Benzo(a)pyrene	< 4.13	4.13		ug/L		08/10/17 13:31	B7H0414	JN1
Di(2-ethylhexyl)phthalate	< 25.8	25.8		ug/L		08/10/17 13:31	B7H0414	JN1
Hexachlorocyclopentadiene	< 10.3	10.3		ug/L		08/10/17 13:31	B7H0414	JN1
Pentachlorophenol	< 51.7	51.7		ug/L		08/10/17 13:31	B7H0414	JN1
Surrogate: 2-Fluorophenol				*Recovery: 31%*	*Limits: 4-108*	*08/10/17 13:31*	*B7H0414*	*JN1*
Surrogate: Phenol-d5				*Recovery: 26%*	*Limits: 1-101*	*08/10/17 13:31*	*B7H0414*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 35%*	*Limits: 23-119*	*08/10/17 13:31*	*B7H0414*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 43%*	*Limits: 28-124*	*08/10/17 13:31*	*B7H0414*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 35%*	*Limits: 11-102*	*08/10/17 13:31*	*B7H0414*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 101%*	*Limits: 79-147*	*08/10/17 13:31*	*B7H0414*	*JN1*
Eurofins-Eaton (Underwriters), Subcontract								
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 9.0	9		ug/L		08/10/17 00:00	17H0132-02	UL
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.55**	0.17		pCi/L		08/31/17 00:00	17H0132-02	UL
Radium-228	**0.63**	0.6		pCi/L		08/31/17 00:00	17H0132-02	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-2
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:55
Matrix: Groundwater
Lab ID: 17H0132-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1270**			uS/cm	08/02/17 08:55	B7H0619	CD
Method: SM2550-B							
Temperature	**63.8**			°F	08/02/17 08:55	B7H0619	CD
Method: SM4500-H							
pH	**6.83**	0.05		pH Units	08/02/17 08:55	B7H0619	CD
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	08/08/17 17:54	B7H0278	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Arsenic	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Barium	**73.5**	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Beryllium	< 2.50	2.50		ug/L	08/14/17 11:47	B7H0226	AG
Boron	**3580**	12.5		ug/L	08/14/17 11:47	B7H0226	AG
Cadmium	< 2.50	2.50		ug/L	08/14/17 11:47	B7H0226	AG
Calcium	**238**	2.50		mg/L	08/14/17 12:47	B7H0226	AG
Chromium	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Cobalt	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Copper	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Iron	**1920**	125		ug/L	08/14/17 11:47	B7H0226	AG
Lead	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Manganese	**10300**	500		ug/L	08/14/17 12:47	B7H0226	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/14/17 11:47	B7H0226	AG
Nickel	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Selenium	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Silver	< 2.50	2.50		ug/L	08/14/17 11:47	B7H0226	AG
Thallium	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Zinc	< 25.0	25.0		ug/L	08/14/17 11:47	B7H0226	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/09/17 16:39	B7H0333	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**46.6**	3.00		mg/L	08/03/17 10:59	B7H0106	NB1
Fluoride	< 0.500	0.500		mg/L	08/03/17 10:59	B7H0106	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/03/17 10:59	B7H0106	NB1
Sulfate	**390**	50.0		mg/L	08/05/17 07:59	B7H0150	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-2
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:55
Matrix: Groundwater
Lab ID: 17H0132-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1060**	10.0		mg/L		08/04/17 09:00	B7H0181	CP1
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	**0.036**	0.010		mg/L		08/04/17 10:59	B7H0146	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/07/17 14:53	B7H0219	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.493	0.493		ug/L		08/09/17 19:32	B7H0199	LP
Atrazine	< 0.493	0.493		ug/L		08/09/17 19:32	B7H0199	LP
Chlordane	< 0.493	0.493		ug/L		08/09/17 19:32	B7H0199	LP
Endrin	< 0.0493	0.0493		ug/L		08/09/17 19:32	B7H0199	LP
gamma-BHC	< 0.0493	0.0493		ug/L		08/09/17 19:32	B7H0199	LP
Heptachlor	< 0.0493	0.0493		ug/L		08/09/17 19:32	B7H0199	LP
Heptachlor epoxide	< 0.0493	0.0493		ug/L		08/09/17 19:32	B7H0199	LP
Methoxychlor	< 0.0493	0.0493		ug/L		08/09/17 19:32	B7H0199	LP
Simazine	< 0.493	0.493		ug/L		08/09/17 19:32	B7H0199	LP
Toxaphene	< 1.97	1.97		ug/L		08/09/17 19:32	B7H0199	LP
Surrogate: Decachlorobiphenyl				*Recovery: 95%*	*Limits: 30-109*	*08/09/17 19:32*	*B7H0199*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 48%*	*Limits: 21-124*	*08/09/17 19:32*	*B7H0199*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Aroclor 1221	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Aroclor 1232	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Aroclor 1242	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Aroclor 1248	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Aroclor 1254	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Aroclor 1260	< 0.296	0.296		ug/L		08/09/17 14:18	B7H0200	CS2
Total PCB	< 0.985	0.985		ug/L		08/09/17 14:18	B7H0200	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 89%*	*Limits: 40-135*	*08/09/17 14:18*	*B7H0200*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 43%*	*Limits: 13-133*	*08/09/17 14:18*	*B7H0200*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/04/17 13:40	B7H0108	MNN
Carbofuran	< 2.00	2.00		ug/L		08/04/17 13:40	B7H0108	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.51	1.51		ug/L		08/14/17 14:59	B7H0385	MNN

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-2
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:55
Matrix: Groundwater
Lab ID: 17H0132-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.51	1.51		ug/L		08/14/17 14:59	B7H0385	MNN
Dinoseb	< 1.51	1.51		ug/L		08/14/17 14:59	B7H0385	MNN
Picloram	< 1.51	1.51		ug/L		08/14/17 14:59	B7H0385	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 37-128*	*08/14/17 14:59*	*B7H0385*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		08/04/17 04:36	B7H0290	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		08/04/17 04:36	B7H0290	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Benzene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Chlorobenzene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Ethylbenzene	< 0.400	0.400		ug/L		08/04/17 04:36	B7H0290	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Dichloromethane	< 0.400	0.400		ug/L		08/04/17 04:36	B7H0290	FP1
Styrene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Toluene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Trichloroethene	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Vinyl chloride	< 0.800	0.800		ug/L		08/04/17 04:36	B7H0290	FP1
Xylenes, Total	< 4.00	4.00		ug/L		08/04/17 04:36	B7H0290	FP1
Surrogate: Dibromofluoromethane				*Recovery: 98%*	*Limits: 84-137*	*08/04/17 04:36*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 101%*	*Limits: 87-127*	*08/04/17 04:36*	*B7H0290*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*08/04/17 04:36*	*B7H0290*	*FP1*
Surrogate: Toluene-d8				*Recovery: 100%*	*Limits: 85-112*	*08/04/17 04:36*	*B7H0290*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 102%*	*Limits: 90-119*	*08/04/17 04:36*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 97%*	*Limits: 87-138*	*08/04/17 04:36*	*B7H0290*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		08/29/17 17:25	B7I0063	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		08/29/17 17:25	B7I0063	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-2
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:55
Matrix: Groundwater
Lab ID: 17H0132-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		08/29/17 15:08	B7H1061	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 104%*	*Limits: 70-130*	*08/29/17 15:08*	*B7H1061*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.57	4.57		ug/L		08/10/17 14:04	B7H0414	JN1
o-Dichlorobenzene	< 2.28	2.28		ug/L		08/10/17 14:04	B7H0414	JN1
p-Dichlorobenzene	< 2.28	2.28		ug/L		08/10/17 14:04	B7H0414	JN1
Benzo(a)pyrene	< 4.57	4.57		ug/L		08/10/17 14:04	B7H0414	JN1
Di(2-ethylhexyl)phthalate	< 28.6	28.6		ug/L		08/10/17 14:04	B7H0414	JN1
Hexachlorocyclopentadiene	< 11.4	11.4		ug/L		08/10/17 14:04	B7H0414	JN1
Pentachlorophenol	< 57.1	57.1		ug/L		08/10/17 14:04	B7H0414	JN1
Surrogate: 2-Fluorophenol				*Recovery: 30%*	*Limits: 4-108*	*08/10/17 14:04*	*B7H0414*	*JN1*
Surrogate: Phenol-d5				*Recovery: 24%*	*Limits: 1-101*	*08/10/17 14:04*	*B7H0414*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 36%*	*Limits: 23-119*	*08/10/17 14:04*	*B7H0414*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 41%*	*Limits: 28-124*	*08/10/17 14:04*	*B7H0414*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 27%*	*Limits: 11-102*	*08/10/17 14:04*	*B7H0414*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 97%*	*Limits: 79-147*	*08/10/17 14:04*	*B7H0414*	*JN1*
Eurofins-Eaton (Underwriters), Subcontract								
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 9.0	9		ug/L		08/10/17 00:00	17H0132-03	UL
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.48**	0.2		pCi/L		08/31/17 00:00	17H0132-03	UL
Radium-228	**0.53**	0.47		pCi/L		08/31/17 00:00	17H0132-03	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:05
Matrix: Groundwater
Lab ID: 17H0132-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1070**			uS/cm	08/02/17 08:05	B7H0619	CD
Method: SM2550-B							
Temperature	**64.3**			°F	08/02/17 08:05	B7H0619	CD
Method: SM4500-H							
pH	**6.78**	0.05		pH Units	08/02/17 08:05	B7H0619	CD
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	08/08/17 17:58	B7H0278	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Arsenic	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Barium	**94.7**	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Beryllium	< 2.50	2.50		ug/L	08/14/17 11:49	B7H0226	AG
Boron	**18900**	12.5		ug/L	08/14/17 11:49	B7H0226	AG
Cadmium	< 2.50	2.50		ug/L	08/14/17 11:49	B7H0226	AG
Calcium	**198**	2.50		mg/L	08/14/17 12:48	B7H0226	AG
Chromium	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Cobalt	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Copper	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Iron	**10300**	125		ug/L	08/14/17 11:49	B7H0226	AG
Lead	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Manganese	**7860**	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/14/17 11:49	B7H0226	AG
Nickel	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Selenium	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Silver	< 2.50	2.50		ug/L	08/14/17 11:49	B7H0226	AG
Thallium	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Zinc	< 25.0	25.0		ug/L	08/14/17 11:49	B7H0226	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/09/17 16:46	B7H0333	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**38.3**	3.00		mg/L	08/03/17 11:28	B7H0106	NB1
Fluoride	< 0.500	0.500		mg/L	08/03/17 11:28	B7H0106	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/03/17 11:28	B7H0106	NB1
Sulfate	**368**	50.0		mg/L	08/05/17 08:27	B7H0150	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:05
Matrix: Groundwater
Lab ID: 17H0132-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**920**	10.0		mg/L		08/04/17 09:00	B7H0181	CP1
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/04/17 10:13	B7H0146	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/07/17 14:53	B7H0219	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.491	0.491		ug/L		08/10/17 17:48	B7H0199	LP
Atrazine	< 0.491	0.491		ug/L		08/10/17 17:48	B7H0199	LP
Chlordane	< 0.491	0.491		ug/L		08/10/17 17:48	B7H0199	LP
Endrin	< 0.0491	0.0491		ug/L		08/10/17 17:48	B7H0199	LP
gamma-BHC	< 0.0491	0.0491		ug/L		08/10/17 17:48	B7H0199	LP
Heptachlor	< 0.0491	0.0491		ug/L		08/10/17 17:48	B7H0199	LP
Heptachlor epoxide	< 0.0491	0.0491		ug/L		08/10/17 17:48	B7H0199	LP
Methoxychlor	< 0.0491	0.0491		ug/L		08/10/17 17:48	B7H0199	LP
Simazine	< 0.491	0.491		ug/L		08/10/17 17:48	B7H0199	LP
Toxaphene	< 1.96	1.96		ug/L		08/10/17 17:48	B7H0199	LP
Surrogate: Decachlorobiphenyl				*Recovery: 90%*	*Limits: 30-109*	*08/10/17 17:48*	*B7H0199*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 59%*	*Limits: 21-124*	*08/10/17 17:48*	*B7H0199*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Aroclor 1221	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Aroclor 1232	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Aroclor 1242	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Aroclor 1248	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Aroclor 1254	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Aroclor 1260	< 0.294	0.294		ug/L		08/09/17 13:51	B7H0200	CS2
Total PCB	< 0.981	0.981		ug/L		08/09/17 13:51	B7H0200	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 105%*	*Limits: 40-135*	*08/09/17 13:51*	*B7H0200*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 59%*	*Limits: 13-133*	*08/09/17 13:51*	*B7H0200*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/04/17 14:12	B7H0108	MNN
Carbofuran	< 2.00	2.00		ug/L		08/04/17 14:12	B7H0108	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.63	1.63		ug/L		08/14/17 15:41	B7H0385	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:05
Matrix: Groundwater
Lab ID: 17H0132-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.63	1.63		ug/L		08/14/17 15:41	B7H0385	MNN
Dinoseb	< 1.63	1.63		ug/L		08/14/17 15:41	B7H0385	MNN
Picloram	< 1.63	1.63		ug/L		08/14/17 15:41	B7H0385	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 77%*	*Limits: 37-128*	*08/14/17 15:41*	*B7H0385*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		08/04/17 05:09	B7H0290	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		08/04/17 05:09	B7H0290	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Benzene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Chlorobenzene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Ethylbenzene	< 0.400	0.400		ug/L		08/04/17 05:09	B7H0290	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Dichloromethane	< 0.400	0.400		ug/L		08/04/17 05:09	B7H0290	FP1
Styrene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Toluene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Trichloroethene	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Vinyl chloride	< 0.800	0.800		ug/L		08/04/17 05:09	B7H0290	FP1
Xylenes, Total	< 4.00	4.00		ug/L		08/04/17 05:09	B7H0290	FP1
Surrogate: Dibromofluoromethane				*Recovery: 94%*	*Limits: 84-137*	*08/04/17 05:09*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 97%*	*Limits: 87-127*	*08/04/17 05:09*	*B7H0290*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*08/04/17 05:09*	*B7H0290*	*FP1*
Surrogate: Toluene-d8				*Recovery: 100%*	*Limits: 85-112*	*08/04/17 05:09*	*B7H0290*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%*	*Limits: 90-119*	*08/04/17 05:09*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 87-138*	*08/04/17 05:09*	*B7H0290*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.189	0.189		ug/L		08/29/17 18:27	B7I0063	LP
Ethylene Dibromide	< 0.189	0.189		ug/L		08/29/17 18:27	B7I0063	LP

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-3
Report Date: 10/04/2017
Collection Date: 08/02/2017 08:05
Matrix: Groundwater
Lab ID: 17H0132-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		08/29/17 10:49	B7H1061	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 70%*	*Limits: 70-130*	*08/29/17 10:49*	*B7H1061*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.43	4.43		ug/L		08/10/17 14:37	B7H0414	JN1
o-Dichlorobenzene	< 2.21	2.21		ug/L		08/10/17 14:37	B7H0414	JN1
p-Dichlorobenzene	< 2.21	2.21		ug/L		08/10/17 14:37	B7H0414	JN1
Benzo(a)pyrene	< 4.43	4.43		ug/L		08/10/17 14:37	B7H0414	JN1
Di(2-ethylhexyl)phthalate	< 27.7	27.7		ug/L		08/10/17 14:37	B7H0414	JN1
Hexachlorocyclopentadiene	< 11.1	11.1		ug/L		08/10/17 14:37	B7H0414	JN1
Pentachlorophenol	< 55.3	55.3		ug/L		08/10/17 14:37	B7H0414	JN1
Surrogate: 2-Fluorophenol				*Recovery: 29%*	*Limits: 4-108*	*08/10/17 14:37*	*B7H0414*	*JN1*
Surrogate: Phenol-d5				*Recovery: 24%*	*Limits: 1-101*	*08/10/17 14:37*	*B7H0414*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 34%*	*Limits: 23-119*	*08/10/17 14:37*	*B7H0414*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 37%*	*Limits: 28-124*	*08/10/17 14:37*	*B7H0414*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 28%*	*Limits: 11-102*	*08/10/17 14:37*	*B7H0414*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 98%*	*Limits: 79-147*	*08/10/17 14:37*	*B7H0414*	*JN1*

Eurofins-Eaton (Underwriters), Subcontract

Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	08/10/17 00:00	17H0132-04	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.5**	0.2		pCi/L	08/31/17 00:00	17H0132-04	UL
Radium-228	**-0.79**	0.71		pCi/L	08/31/17 00:00	17H0132-04	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-4
Report Date: 10/04/2017
Collection Date: 08/02/2017 10:05
Matrix: Groundwater
Lab ID: 17H0132-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**884**			uS/cm	08/02/17 10:05	B7H0619	JJ1
Method: SM2550-B							
Temperature	**65.9**			°F	08/02/17 10:05	B7H0619	JJ1
Method: SM4500-H							
pH	**7.29**	0.05		pH Units	08/02/17 10:05	B7H0619	JJ1
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	08/08/17 18:02	B7H0278	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Arsenic	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Barium	**391**	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Beryllium	< 2.50	2.50		ug/L	08/14/17 11:56	B7H0226	AG
Boron	**105**	12.5		ug/L	08/14/17 11:56	B7H0226	AG
Cadmium	< 2.50	2.50		ug/L	08/14/17 11:56	B7H0226	AG
Calcium	**150**	2.50		mg/L	08/14/17 12:55	B7H0226	AG
Chromium	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Cobalt	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Copper	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Iron	**12600**	125		ug/L	08/14/17 11:56	B7H0226	AG
Lead	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Manganese	**146**	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/14/17 11:56	B7H0226	AG
Nickel	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Selenium	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Silver	< 2.50	2.50		ug/L	08/14/17 11:56	B7H0226	AG
Thallium	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Zinc	< 25.0	25.0		ug/L	08/14/17 11:56	B7H0226	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/09/17 16:48	B7H0333	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**11.9**	3.00		mg/L	08/03/17 11:57	B7H0106	NB1
Fluoride	< 0.500	0.500		mg/L	08/03/17 11:57	B7H0106	NB1
Nitrogen, Nitrate	< 0.500	0.500		mg/L	08/03/17 11:57	B7H0106	NB1
Sulfate	< 5.00	5.00		mg/L	08/05/17 08:56	B7H0150	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-4
Report Date: 10/04/2017
Collection Date: 08/02/2017 10:05
Matrix: Groundwater
Lab ID: 17H0132-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**526**	10.0		mg/L		08/04/17 09:00	B7H0181	CP1
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/04/17 10:13	B7H0146	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/07/17 14:53	B7H0219	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.492	0.492		ug/L		08/10/17 18:34	B7H0199	LP
Atrazine	< 0.492	0.492		ug/L		08/10/17 18:34	B7H0199	LP
Chlordane	< 0.492	0.492		ug/L		08/10/17 18:34	B7H0199	LP
Endrin	< 0.0492	0.0492		ug/L		08/10/17 18:34	B7H0199	LP
gamma-BHC	< 0.0492	0.0492		ug/L		08/10/17 18:34	B7H0199	LP
Heptachlor	< 0.0492	0.0492		ug/L		08/10/17 18:34	B7H0199	LP
Heptachlor epoxide	< 0.0492	0.0492		ug/L		08/10/17 18:34	B7H0199	LP
Methoxychlor	< 0.0492	0.0492		ug/L		08/10/17 18:34	B7H0199	LP
Simazine	< 0.492	0.492		ug/L		08/10/17 18:34	B7H0199	LP
Toxaphene	< 1.97	1.97		ug/L		08/10/17 18:34	B7H0199	LP
Surrogate: Decachlorobiphenyl				*Recovery: 76%*	*Limits: 30-109*	*08/10/17 18:34*	*B7H0199*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 43%*	*Limits: 21-124*	*08/10/17 18:34*	*B7H0199*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Aroclor 1221	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Aroclor 1232	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Aroclor 1242	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Aroclor 1248	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Aroclor 1254	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Aroclor 1260	< 0.295	0.295		ug/L		08/09/17 13:24	B7H0200	CS2
Total PCB	< 0.984	0.984		ug/L		08/09/17 13:24	B7H0200	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 99%*	*Limits: 40-135*	*08/09/17 13:24*	*B7H0200*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 59%*	*Limits: 13-133*	*08/09/17 13:24*	*B7H0200*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/04/17 14:44	B7H0108	MNN
Carbofuran	< 2.00	2.00		ug/L		08/04/17 14:44	B7H0108	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.58	1.58		ug/L		08/14/17 16:22	B7H0385	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-4
Report Date: 10/04/2017
Collection Date: 08/02/2017 10:05
Matrix: Groundwater
Lab ID: 17H0132-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.58	1.58		ug/L		08/14/17 16:22	B7H0385	MNN
Dinoseb	< 1.58	1.58		ug/L		08/14/17 16:22	B7H0385	MNN
Picloram	< 1.58	1.58		ug/L		08/14/17 16:22	B7H0385	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 73%*	*Limits: 37-128*	*08/14/17 16:22*	*B7H0385*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		08/04/17 05:42	B7H0290	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		08/04/17 05:42	B7H0290	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Benzene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Chlorobenzene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Ethylbenzene	< 0.400	0.400		ug/L		08/04/17 05:42	B7H0290	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Dichloromethane	< 0.400	0.400		ug/L		08/04/17 05:42	B7H0290	FP1
Styrene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Toluene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Trichloroethene	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Vinyl chloride	< 0.800	0.800		ug/L		08/04/17 05:42	B7H0290	FP1
Xylenes, Total	< 4.00	4.00		ug/L		08/04/17 05:42	B7H0290	FP1
Surrogate: Dibromofluoromethane				*Recovery: 98%*	*Limits: 84-137*	*08/04/17 05:42*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 99%*	*Limits: 87-127*	*08/04/17 05:42*	*B7H0290*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*08/04/17 05:42*	*B7H0290*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 85-112*	*08/04/17 05:42*	*B7H0290*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 102%*	*Limits: 90-119*	*08/04/17 05:42*	*B7H0290*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 100%*	*Limits: 87-138*	*08/04/17 05:42*	*B7H0290*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.189	0.189		ug/L		08/29/17 18:59	B7I0063	LP
Ethylene Dibromide	< 0.189	0.189		ug/L		08/29/17 18:59	B7I0063	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-4
Report Date: 10/04/2017
Collection Date: 08/02/2017 10:05
Matrix: Groundwater
Lab ID: 17H0132-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		08/29/17 15:45	B7H1061	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 115%*	*Limits: 70-130*	*08/29/17 15:45*	*B7H1061*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.34	4.34		ug/L		08/10/17 15:10	B7H0414	JN1
o-Dichlorobenzene	< 2.17	2.17		ug/L		08/10/17 15:10	B7H0414	JN1
p-Dichlorobenzene	< 2.17	2.17		ug/L		08/10/17 15:10	B7H0414	JN1
Benzo(a)pyrene	< 4.34	4.34		ug/L		08/10/17 15:10	B7H0414	JN1
Di(2-ethylhexyl)phthalate	< 27.1	27.1		ug/L		08/10/17 15:10	B7H0414	JN1
Hexachlorocyclopentadiene	< 10.8	10.8		ug/L		08/10/17 15:10	B7H0414	JN1
Pentachlorophenol	< 54.2	54.2		ug/L		08/10/17 15:10	B7H0414	JN1
Surrogate: 2-Fluorophenol				*Recovery: 36%*	*Limits: 4-108*	*08/10/17 15:10*	*B7H0414*	*JN1*
Surrogate: Phenol-d5				*Recovery: 28%*	*Limits: 1-101*	*08/10/17 15:10*	*B7H0414*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 41%*	*Limits: 23-119*	*08/10/17 15:10*	*B7H0414*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 47%*	*Limits: 28-124*	*08/10/17 15:10*	*B7H0414*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 37%*	*Limits: 11-102*	*08/10/17 15:10*	*B7H0414*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 103%*	*Limits: 79-147*	*08/10/17 15:10*	*B7H0414*	*JN1*
Eurofins-Eaton (Underwriters), Subcontract								
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 9.0	9		ug/L		08/10/17 00:00	17H0132-05	UL
Subcontracted Analyses								
Method: SM7500								
Radium-226	**0.53**	0.19		pCi/L		08/31/17 00:00	17H0132-05	UL
Radium-228	**1.5**	0.6		pCi/L		08/31/17 00:00	17H0132-05	UL

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-5
Report Date: 10/04/2017
Collection Date: 08/03/2017 11:00
Matrix: Groundwater
Lab ID: 17H0132-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**633**			uS/cm	08/03/17 11:00	B7H0619	AS5
Method: SM2550-B							
Temperature	**57.4**			°F	08/03/17 11:00	B7H0619	AS5
Method: SM4500-H							
pH	**7.77**	0.05		pH Units	08/03/17 11:00	B7H0619	AS5
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	08/08/17 18:06	B7H0278	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Arsenic	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Barium	**43.0**	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Beryllium	< 2.50	2.50		ug/L	08/14/17 11:58	B7H0226	AG
Boron	**40.7**	12.5		ug/L	08/14/17 11:58	B7H0226	AG
Cadmium	< 2.50	2.50		ug/L	08/14/17 11:58	B7H0226	AG
Calcium	**105**	2.50		mg/L	08/14/17 12:56	B7H0226	AG
Chromium	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Cobalt	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Copper	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Iron	**1510**	125		ug/L	08/14/17 11:58	B7H0226	AG
Lead	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Manganese	**30.9**	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Molybdenum	< 0.0250	0.0250		mg/L	08/14/17 11:58	B7H0226	AG
Nickel	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Selenium	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Silver	< 2.50	2.50		ug/L	08/14/17 11:58	B7H0226	AG
Thallium	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Zinc	< 25.0	25.0		ug/L	08/14/17 11:58	B7H0226	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	08/09/17 16:50	B7H0333	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 3.00	3.00		mg/L	08/04/17 20:31	B7H0150	NB1
Fluoride	< 0.500	0.500		mg/L	08/04/17 20:31	B7H0150	NB1
Nitrogen, Nitrate	**2.26**	0.500		mg/L	08/04/17 20:31	B7H0150	NB1
Sulfate	**48.4**	5.00		mg/L	08/04/17 20:31	B7H0150	NB1

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-5
Report Date: 10/04/2017
Collection Date: 08/03/2017 11:00
Matrix: Groundwater
Lab ID: 17H0132-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**392**	10.0		mg/L		08/04/17 09:00	B7H0181	CP1
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		08/04/17 10:21	B7H0146	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		08/07/17 14:54	B7H0219	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.517	0.517		ug/L		08/14/17 23:48	B7H0439	LP
Atrazine	< 0.517	0.517		ug/L		08/14/17 23:48	B7H0439	LP
Chlordane	< 0.517	0.517		ug/L		08/14/17 23:48	B7H0439	LP
Endrin	< 0.0517	0.0517		ug/L		08/14/17 23:48	B7H0439	LP
gamma-BHC	< 0.0517	0.0517		ug/L		08/14/17 23:48	B7H0439	LP
Heptachlor	< 0.0517	0.0517		ug/L		08/14/17 23:48	B7H0439	LP
Heptachlor epoxide	< 0.0517	0.0517		ug/L		08/14/17 23:48	B7H0439	LP
Methoxychlor	< 0.0517	0.0517		ug/L		08/14/17 23:48	B7H0439	LP
Simazine	< 0.517	0.517		ug/L		08/14/17 23:48	B7H0439	LP
Toxaphene	< 2.07	2.07		ug/L		08/14/17 23:48	B7H0439	LP
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 30-109*	*08/14/17 23:48*	*B7H0439*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 40%*	*Limits: 21-124*	*08/14/17 23:48*	*B7H0439*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Aroclor 1016	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Aroclor 1221	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Aroclor 1232	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Aroclor 1242	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Aroclor 1248	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Aroclor 1254	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Aroclor 1260	< 0.310	0.310		ug/L		08/17/17 01:01	B7H0441	CS2
Total PCB	< 1.03	1.03		ug/L		08/17/17 01:01	B7H0441	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 97%*	*Limits: 40-135*	*08/17/17 01:01*	*B7H0441*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 40%*	*Limits: 13-133*	*08/17/17 01:01*	*B7H0441*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		08/08/17 13:11	B7H0422	MNN
Carbofuran	< 2.00	2.00		ug/L		08/08/17 13:11	B7H0422	MNN
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.60	1.60		ug/L		08/14/17 17:04	B7H0385	MNN

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-5
Report Date: 10/04/2017
Collection Date: 08/03/2017 11:00
Matrix: Groundwater
Lab ID: 17H0132-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
2,4-D	< 1.60	1.60		ug/L		08/14/17 17:04	B7H0385	MNN
Dinoseb	< 1.60	1.60		ug/L		08/14/17 17:04	B7H0385	MNN
Picloram	< 1.60	1.60		ug/L		08/14/17 17:04	B7H0385	MNN
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 83%*	*Limits: 37-128*	*08/14/17 17:04*	*B7H0385*	*MNN*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
1,1,2-Trichloroethane	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
1,1-Dichloroethene	< 0.400	0.400		ug/L		08/09/17 21:37	B7H0404	FP1
1,2-Dichloroethane	< 0.400	0.400		ug/L		08/09/17 21:37	B7H0404	FP1
1,2-Dichloropropane	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Benzene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Carbon tetrachloride	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Chlorobenzene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
cis-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Ethylbenzene	< 0.400	0.400		ug/L		08/09/17 21:37	B7H0404	FP1
Methyl tert-butyl ether	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Dichloromethane	< 0.400	0.400		ug/L		08/09/17 21:37	B7H0404	FP1
Styrene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Tetrachloroethene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Toluene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
trans-1,2-Dichloroethene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Trichloroethene	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Vinyl chloride	< 0.800	0.800		ug/L		08/09/17 21:37	B7H0404	FP1
Xylenes, Total	< 4.00	4.00		ug/L		08/09/17 21:37	B7H0404	FP1
Surrogate: Dibromofluoromethane				*Recovery: 101%*	*Limits: 84-137*	*08/09/17 21:37*	*B7H0404*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 99%*	*Limits: 87-127*	*08/09/17 21:37*	*B7H0404*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*08/09/17 21:37*	*B7H0404*	*FP1*
Surrogate: Toluene-d8				*Recovery: 101%*	*Limits: 85-112*	*08/09/17 21:37*	*B7H0404*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 103%*	*Limits: 90-119*	*08/09/17 21:37*	*B7H0404*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 101%*	*Limits: 87-138*	*08/09/17 21:37*	*B7H0404*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		08/29/17 19:30	B7I0063	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		08/29/17 19:30	B7I0063	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
3Q 2017
Work Order: 17H0132

Client Sample ID: AP-5
Report Date: 10/04/2017
Collection Date: 08/03/2017 11:00
Matrix: Groundwater
Lab ID: 17H0132-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		08/29/17 16:21	B7H1061	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 107%*	*Limits: 70-130*	*08/29/17 16:21*	*B7H1061*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.04	4.04		ug/L		08/10/17 15:43	B7H0414	JN1
o-Dichlorobenzene	< 2.02	2.02		ug/L		08/10/17 15:43	B7H0414	JN1
p-Dichlorobenzene	< 2.02	2.02		ug/L		08/10/17 15:43	B7H0414	JN1
Benzo(a)pyrene	< 4.04	4.04		ug/L		08/10/17 15:43	B7H0414	JN1
Di(2-ethylhexyl)phthalate	< 25.3	25.3		ug/L		08/10/17 15:43	B7H0414	JN1
Hexachlorocyclopentadiene	< 10.1	10.1		ug/L		08/10/17 15:43	B7H0414	JN1
Pentachlorophenol	< 50.6	50.6		ug/L		08/10/17 15:43	B7H0414	JN1
Surrogate: 2-Fluorophenol				*Recovery: 31%*	*Limits: 4-108*	*08/10/17 15:43*	*B7H0414*	*JN1*
Surrogate: Phenol-d5				*Recovery: 24%*	*Limits: 1-101*	*08/10/17 15:43*	*B7H0414*	*JN1*
Surrogate: Nitrobenzene-d5				*Recovery: 37%*	*Limits: 23-119*	*08/10/17 15:43*	*B7H0414*	*JN1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 46%*	*Limits: 28-124*	*08/10/17 15:43*	*B7H0414*	*JN1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 32%*	*Limits: 11-102*	*08/10/17 15:43*	*B7H0414*	*JN1*
Surrogate: 4-Terphenyl-d14				*Recovery: 102%*	*Limits: 79-147*	*08/10/17 15:43*	*B7H0414*	*JN1*
Eurofins-Eaton (Underwriters), Subcontract								
Semivolatile Organic Compounds by GC/MS								
Method: E548.1								
Endothall	< 9.0	9		ug/L		08/10/17 00:00	17H0132-06	UL
Subcontracted Analyses								
Method: SM7500								
Radium-226	**1.9**	0.93		pCi/L		08/31/17 00:00	17H0132-06	UL
Radium-228	**1**	0.54		pCi/L		08/31/17 00:00	17H0132-06	UL

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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Revision date: 05/15/2017

eurofins | Eaton Analytical

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1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 395069
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3751618	17H0132-01	548.1	08/02/17 09:00	Client	08/09/17 10:00
3751619	17H0132-02	548.1	08/02/17 08:00	Client	08/09/17 10:00
3751620	17H0132-03	548.1	08/02/17 08:55	Client	08/09/17 10:00
3751621	17H0132-04	548.1	08/02/17 08:05	Client	08/09/17 10:00
3751622	17H0132-05	548.1	08/02/17 10:05	Client	08/09/17 10:00
3751623	17H0132-06	548.1	08/03/17 11:00	Client	08/09/17 10:00

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

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James Van Fleit ASM — 08/17/2017

Authorized Signature — Title — Date

Client Name: Environmental Monitoring Technologies
Report #: 395069

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Sampling Point: 17H0132-01 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/09/17 14:00	08/10/17 13:18	3751618

Sampling Point: 17H0132-02 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/09/17 14:00	08/10/17 13:34	3751619

Sampling Point: 17H0132-03 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/09/17 14:00	08/10/17 13:50	3751620

Sampling Point: 17H0132-04 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/09/17 14:00	08/10/17 14:21	3751621

Sampling Point: 17H0132-05 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/09/17 14:00	08/10/17 14:37	3751622

Sampling Point: 17H0132-06 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	08/09/17 14:00	08/10/17 14:53	3751623

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

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Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Electronic Filing: Received, Clerk's Office 01/29/2020

324570

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17H0132

395069

SENDING LABORATORY:	RECEIVING LABORATORY:
Environmental Monitoring and Technologies, Inc 8100 Austin Ave Morton Grove, IL 60053 Phone: 847-324-3327 Fax: 847.967.6735 Project Manager: Matt Gregory (mgregory@emt.com)	Eurofins-Eaton (Underwriters), Subcontract 110 South Hill St (Now Eurofins Eaton Analytical) South Bend, IN 46617- Phone :(574) 233-4777 Fax: (847) 407-1916

Analysis	Due – Standard	Expires	Laboratory ID / Comments
AW-3			3751618
Sample ID: 17H0132-01 Water	**Sampled:08/02/17 09:00**		
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 09:00	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall (2)	08/17/17 23:59	08/09/17 09:00	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t< 32 oz HDPE, 1:1 HNO3 t< 44 ml VOA vial (U)			44 ml VOA vial (V)
AP-1			3751619
Sample ID: 17H0132-02 Water	**Sampled:08/02/17 08:00**		
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 08:00	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall (2)	08/17/17 23:59	08/09/17 08:00	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t< 32 oz HDPE, 1:1 HNO3 t< 44 ml VOA vial (U)			44 ml VOA vial (V)
AP-2			3751620
Sample ID: 17H0132-03 Water	**Sampled:08/02/17 08:55**		
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 08:55	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall (2)	08/17/17 23:59	08/09/17 08:55	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t< 32 oz HDPE, 1:1 HNO3 t< 44 ml VOA vial (U)			44 ml VOA vial (V)
AP-3			3751621
Sample ID: 17H0132-04 Water	**Sampled:08/02/17 08:05**		
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 08:05	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall (2)	08/17/17 23:59	08/09/17 08:05	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t< 32 oz HDPE, 1:1 HNO3 t< 44 ml VOA vial (U)			44 ml VOA vial (V)

PO # 60848 for Endothal, 6 Samples
2 VOC vials each

Client Provided Sample Container

4.2°C wet

Released By	Date	Received By	Date
	8/4/17		8-9-17 1000
Released By	Date	Received By	Date

Only received 548 samples SS 8-9-17

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17H0132

Analysis	Due _ Standard	Expires	Comments
AP-4			
Sample ID: 17H0132-05 **Water**	**Sampled:08/02/17 10:05**	3751622	
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 10:05	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall	08/17/17 23:59	08/09/17 10:05	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t(32 oz HDPE, 1:1 HNO3 t(44 ml VOA vial (U)		44 ml VOA vial (V)	
AP-5			
Sample ID: 17H0132-06 **Water**	**Sampled:08/03/17 11:00**	3751623	
Radiation Testing, Subcontracted	09/13/17 23:59	09/02/17 11:00	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall	08/17/17 23:59	08/10/17 11:00	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t(32 oz HDPE, 1:1 HNO3 t(44 ml VOA vial (U)		44 ml VOA vial (V)	

Samples collected 8/2 were received on the last day of hold time and cannot be extracted ss 8-9-17

Ok to run part hold per Matt Gregory MF 9-9-17

Sample prep made arrangements to stay late and extract samples to meet hold time ss 8-9-17

Client Provided Sample Container

4.2°C wet

Released By	Date	Received By	Date
	8/4/17		8-9-17 1000
Released By	Date	Received By	Date

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 08/28/2017

eurofins | Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 394802
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3749113	17H0132-01	7500-Ra B	08/02/17 09:00	Client	08/05/17 09:15
3749113	17H0132-01	7500-Ra D	08/02/17 09:00	Client	08/05/17 09:15
3749114	17H0132-02	7500-Ra B	08/02/17 08:00	Client	08/05/17 09:15
3749114	17H0132-02	7500-Ra D	08/02/17 08:00	Client	08/05/17 09:15
3749115	17H0132-03	7500-Ra B	08/02/17 08:55	Client	08/05/17 09:15
3749115	17H0132-03	7500-Ra D	08/02/17 08:55	Client	08/05/17 09:15
3749116	17H0132-04	7500-Ra B	08/02/17 08:05	Client	08/05/17 09:15
3749116	17H0132-04	7500-Ra D	08/02/17 08:05	Client	08/05/17 09:15
3749117	17H0132-05	7500-Ra B	08/02/17 10:05	Client	08/05/17 09:15
3749117	17H0132-05	7500-Ra D	08/02/17 10:05	Client	08/05/17 09:15
3749118	17H0132-06	7500-Ra B	08/03/17 11:00	Client	08/05/17 09:15
3749118	17H0132-06	7500-Ra D	08/03/17 11:00	Client	08/05/17 09:15

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

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James Van Fleit ASM

Authorized Signature | Title

09/01/2017
Date

Client Name: Environmental Monitoring Technologies
Report #: 394802

Electronic Filing: Received, Clerk's Office 01/29/2020

Sampling Point: 17H0132-01 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.20	1.0	**0.81 ± 0.31**	pCi/L	08/14/17 12:30	08/26/17 08:26	3749113
15262-20-1	Radium-228	7500-Ra D	---	0.49	1.0	**1.7 ± 0.6**	pCi/L	08/14/17 12:00	08/28/17 16:39	3749113
---	Combined Radium	calc.	5 *	0.49	1.0	**2.51 ± 0.64**	pCi/L	08/14/17 12:30	08/28/17 16:39	3749113

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17H0132-02 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.17	1.0	**0.55 ± 0.25**	pCi/L	08/14/17 12:30	08/26/17 08:26	3749114
15262-20-1	Radium-228	7500-Ra D	---	0.60	1.0	**0.63 ± 0.60**	pCi/L	08/14/17 12:00	08/28/17 16:39	3749114
---	Combined Radium	calc.	5 *	0.60	1.0	**1.18 ± 0.65**	pCi/L	08/14/17 12:30	08/28/17 16:39	3749114

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17H0132-03 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.20	1.0	**0.48 ± 0.26**	pCi/L	08/14/17 12:30	08/26/17 09:35	3749115
15262-20-1	Radium-228	7500-Ra D	---	0.47	1.0	**0.53 ± 0.48**	pCi/L	08/14/17 12:00	08/28/17 16:39	3749115
---	Combined Radium	calc.	5 *	0.47	1.0	**1.01 ± 0.55**	pCi/L	08/14/17 12:30	08/28/17 16:39	3749115

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17H0132-04 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.20	1.0	**0.50 ± 0.26**	pCi/L	08/14/17 12:30	08/26/17 09:35	3749116
15262-20-1	Radium-228	7500-Ra D	---	0.71	1.0	-0.79 ± 0.64	pCi/L	08/14/17 12:00	08/28/17 16:39	3749116
---	Combined Radium	calc.	5 *	0.71	1.0	< 0.71	pCi/L	08/14/17 12:30	08/28/17 16:39	3749116

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Electronic Filing: Received, Clerk's Office 01/29/2020

Sampling Point: 17H0132-05 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.19	1.0	**0.53 ± 0.26**	pCi/L	08/14/17 12:30	08/26/17 09:35	3749117
15262-20-1	Radium-228	7500-Ra D	---	0.60	1.0	**1.5 ± 0.6**	pCi/L	08/14/17 12:00	08/28/17 16:39	3749117
---	Combined Radium	calc.	5 *	0.60	1.0	**2.03 ± 0.69**	pCi/L	08/14/17 12:30	08/28/17 16:39	3749117

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17H0132-06 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.93	1.0	**1.9 ± 1.2**	pCi/L	08/14/17 12:30	08/31/17 10:42	3749118
15262-20-1	Radium-228	7500-Ra D	---	0.54	1.0	**1.0 ± 0.6**	pCi/L	08/14/17 12:00	08/28/17 16:39	3749118
---	Combined Radium	calc.	5 *	0.93	1.0	**2.9 ± 1.3**	pCi/L	08/14/17 12:30	08/31/17 10:42	3749118

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Electronic Filing: Received, Clerk's Office 01/29/2020

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

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Electronic Filing: Received, Clerk's Office 01/29/2020

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17H0132

394802

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins-Eaton (Underwriters), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

Analysis	Due – standard	Expires	Comments	Laboratory ID
AW-3				
Sample ID: 17H0132-01 Water	**Sampled:08/02/17 09:00**			3749113
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 09:00	PO #: 60847 for Radium 226 and 228, Standard Turn	
EPA 548.1 Endothall	08/17/17 23:59	08/09/17 09:00	PO #: 60848 for Endothal, Standard TAT	
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to	44 ml VOA vial (U)	44 ml VOA vial (V)	
AP-1				
Sample ID: 17H0132-02 Water	**Sampled:08/02/17 08:00**			3749114
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 08:00	PO #: 60847 for Radium 226 and 228, Standard Turn	
EPA 548.1 Endothall	08/17/17 23:59	08/09/17 08:00	PO #: 60848 for Endothal, Standard TAT	
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to	44 ml VOA vial (U)	44 ml VOA vial (V)	
AP-2				
Sample ID: 17H0132-03 Water	**Sampled:08/02/17 08:55**			3749115
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 08:55	PO #: 60847 for Radium 226 and 228, Standard Turn	
EPA 548.1 Endothall	08/17/17 23:59	08/09/17 08:55	PO #: 60848 for Endothal, Standard TAT	
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to	44 ml VOA vial (U)	44 ml VOA vial (V)	
AP-3				
Sample ID: 17H0132-04 Water	**Sampled:08/02/17 08:05**			3749116
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 08:05	PO #: 60847 for Radium 226 and 228, Standard Turn	
EPA 548.1 Endothall	08/17/17 23:59	08/09/17 08:05	PO #: 60848 for Endothal, Standard TAT	
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 to	32 oz HDPE, 1:1 HNO3 to	44 ml VOA vial (U)	44 ml VOA vial (V)	

pH <2 ms 8/6/17

PO # 60847 for Radium 226 + 228, 6 Samples

NO 548 samples were received only Rads samples SS8-717

32 oz. HNO_3 pres. each

Client Provided Sample Container

Released By	Date	Received By	Date
	8/4/17		8/6/17 0915
Released By	Date	Received By	Date

Ambient

Cross Off on COC by Client

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17H0132

Analysis	Due – standard	Expires	Comments
AP-4			
Sample ID: 17H0132-05 **Water**	**Sampled:08/02/17 10:05**		3749117
Radiation Testing, Subcontracted	09/13/17 23:59	09/01/17 10:05	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall	08/17/17 23:59	08/09/17 10:05	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t	44 ml VOA vial (U)	44 ml VOA vial (V)
AP-5			
Sample ID: 17H0132-06 **Water**	**Sampled:08/03/17 11:00**		3749118
Radiation Testing, Subcontracted	09/13/17 23:59	09/02/17 11:00	PO #: 60847 for Radium 226 and 228, Standard Turn
EPA 548.1 Endothall	08/17/17 23:59	08/10/17 11:00	PO #: 60848 for Endothal, Standard TAT
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t	44 ml VOA vial (U)	44 ml VOA vial (V)

pH < 2
8/5/17 µS

Client Provided Sample Container

Cross Off on COC by Client

Released By	Date	Received By	Date
	8/4/17		8/5/17 0915 Ambient
Released By	Date	Received By	Date

Response to 1st RTP
Page 17 of 17
CWLP - 03176

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CHAIN OF CUSTODY

Environmental Monitoring and Technologies, Inc.
Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

17H0132

Lab Work Order Number : **17H0132**

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: S. Jackson	Sampler Signature

Requested Analyses

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH	2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4	504_DBCP_EDB	531_CARBAMATES	548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB	8260B_VOC	9014_CYANIDE	9065_PHENOL	Preservation Code	pH	Sample Comments
						NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2		
AW-3	8/2/17	0900	GRAB	GW	20	1	1	2	1	7	1	3	1	1	7.26	A,B,C,D,E,F,G,H,K,L,M,N,O,P,Q
AP-1	8/2/17	0800	GRAB	GW	20	1	1	2	1	7	1	3	1	1	6.59	O2,A,B,C,D,E,F,G,H,K,L,M,N,O,P,Q
AP-2			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-3			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-4	8/2/17	1005	GRAB	GW	20	1	1	2	1	7	1	3	1	1	7.29	05,A,B,C,D,E,F,G,H,K,L,M,N,O,P,Q,R,S
AP-5			GRAB	GW	20	1	1	2	1	7	1	3	1	1		

Relinquished By	Date/Time	Received By	Date/Time
Jackson	8/2/17/1400		
Jackson			
			8/2/17 14:00

Requested Turn Around

Rush requests subject to additional charge.

Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Comments

Cooler Numbers and Temperatures 2.2

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

pH = 7.00 @ 0730 on 08/2/17

Environmental Monitoring and Technologies, Inc.

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17H0132

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

Lab Work Order Number : **17H0132**

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Cubeta Duncan

Requested Analyses

- 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH
- 2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4
- 504_DBCP_EDB
- 531_CARBAMATES
- 548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERBICIDES
- 8260B_VOC
- 9014_CYANIDE
- 9065_PHENOL

Requested Turn Around

Rush requests subject to additional charge.

Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2	pH	Sample Comments
AW-3			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-1			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-2	8/2/17	0855	GRAB	GW	20	1	1	2	1	7	1	3	1	1	6.53	03ABCDEFGHIJKLMNOPQRS
AP-3	8/2/17	0805	GRAB	GW	20	1	1	2	1	7	1	3	1	1	6.78	04ABCDEFGHIJKLMNOPQRS
AP-4			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-5			GRAB	GW	20	1	1	2	1	7	1	3	1	1		

Relinquished By	Date/Time	Received By	Date/Time
Cubeta Duncan	8/2/17 14:00		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By: Stile	Date/Time: 8/2/17 14:00

Cooler Numbers and Temperatures: 4.8

Comments:

Matrix Codes: GW=Groundwater

Preserv. Codes:

1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

PH.7 = 7.00 @ 730

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Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

17H0132

Lab Work Order Number : **17H0132**

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	**Project Number**
Sue Corcoran	[none]
Address	**Project Description**
201 East Lake Shore Drive	
City	**PO Number**
Springfield	
State/Zip	**Shipped By**
IL, 62707-	
Phone / Fax	**Tracking Number**
(217) 757-8610 / (217) 757-8615	
Sampler A. Stafran	**Sampler Signature**

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code										Sample Comments
						NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2	pH	
AW-3			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-1			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-2			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-3			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-4			GRAB	GW	20	1	1	2	1	7	1	3	1	1		
AP-5	08/03/17	11:00	GRAB	GW	20	1	1	2	1	7	1	3	1	1	7.77	G6 A13CDEFG1H7 L,M,N,O,P,Q,1

Requested Analyses:
- 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH
- 2540C_TDS::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4
- 504_DBCP_EDB
- 531_CARBAMATES
- 548_ENDOTHALL::552_DALAPON::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB
- 8260B_VOC
- 9014_CYANIDE
- 9065_PHENOL

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) | Expedited (days) | Due Date

Relinquished By	Date/Time	Received By	Date/Time
	08/3/17 / 19:30		08/3/17 / 19:30
Relinquished By	Date/Time	Received By	Date/Time
	8/3/17 / 18:15		
Relinquished By	Date/Time	Received By	Date/Time
		8/3/17	18:15
Cooler Numbers and Temperatures: 4.2			

Comments:

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes

PH 7.00 @ 07:30

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Analytical Report

Eric Staley
City, Water, Light & Power
201 East Lake Shore Drive
Springfield, IL 62707

January 09, 2018

Work Order: 17K0134

RE: List G20
4Q2017

Dear Eric Staley:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Jacoby Jackson
Project Manager
847.967.6666
jjackson@emt.com
Approved for release: 1/9/2018 8:41:56AM

Approved by,



Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674

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Sample Summary

Sample ID	Sub Lab	Laboratory ID	Matrix	Date Sampled	Date Received
AW-3		17K0134-01	Groundwater	11/09/17 10:00	11/09/17 17:40
AP-1		17K0134-02	Groundwater	11/09/17 11:15	11/09/17 17:40
AP-2		17K0134-03	Groundwater	11/09/17 10:20	11/09/17 17:40
AP-3		17K0134-04	Groundwater	11/09/17 09:30	11/09/17 17:40
AP-4		17K0134-05	Groundwater	11/09/17 12:35	11/09/17 17:40
AP-5		17K0134-06	Groundwater	11/09/17 11:25	11/09/17 17:40
Trip Blank 1		17K0134-07	Groundwater	11/09/17 00:00	11/09/17 17:40
AW-3	Eurofins-Eaton (Underwriters'	17K0134-01	Groundwater	11/09/17 10:00	11/09/17 17:40
AP-1	Eurofins-Eaton (Underwriters'	17K0134-02	Groundwater	11/09/17 11:15	11/09/17 17:40
AP-2	Eurofins-Eaton (Underwriters'	17K0134-03	Groundwater	11/09/17 10:20	11/09/17 17:40
AP-3	Eurofins-Eaton (Underwriters'	17K0134-04	Groundwater	11/09/17 09:30	11/09/17 17:40
AP-4	Eurofins-Eaton (Underwriters'	17K0134-05	Groundwater	11/09/17 12:35	11/09/17 17:40
AP-5	Eurofins-Eaton (Underwriters'	17K0134-06	Groundwater	11/09/17 11:25	11/09/17 17:40
AW-3	Test America, Denver, CO, St	17K0134-01	Groundwater	11/09/17 10:00	11/09/17 17:40
AP-1	Test America, Denver, CO, St	17K0134-02	Groundwater	11/09/17 11:15	11/09/17 17:40
AP-2	Test America, Denver, CO, St	17K0134-03	Groundwater	11/09/17 10:20	11/09/17 17:40
AP-3	Test America, Denver, CO, St	17K0134-04	Groundwater	11/09/17 09:30	11/09/17 17:40
AP-4	Test America, Denver, CO, St	17K0134-05	Groundwater	11/09/17 12:35	11/09/17 17:40
AP-5	Test America, Denver, CO, St	17K0134-06	Groundwater	11/09/17 11:25	11/09/17 17:40

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Environmental Monitoring and Technologies, Inc.

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Case Narrative

Client: City, Water, Light & Power **Date:** 01/09/2018
Project: List G20
4Q2017
Work Order: 17K0134

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 17K0134
The samples were received on11/09/17 17:40. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	2.6

Some of the analyses for this work order were subcontracted. Subcontract data and receipt information is provided. Please also refer to subcontract lab narrative as needed.

Samples 17K0134-01, 02, and 06 were decanted prior to the Radium 226 and 228 analysis due to the sediment in the samples that would interfere with the test.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

GC Semivolatiles
Method: 8081B_PEST, S7L0269-CCV4/5: The recovery of Simazine in the opening and bracketing continuing calibration verification (CCV) was 125%, above the 120% laboratory control limit. However, the compound was not detected in the associated sample and therefore was reported.

Method: 552_DALAPON, 17K0134-05: The surrogate recovery for 2,4-Dichlorophenylacetic acid was 144%, above the 130% laboratory control limit, due to sample matrix interferences.

Method: 552_DALAPON, B7L0344-MS1/MSD1: The surrogate recovery for 2,4-Dichlorophenylacetic acid was not detected due to chromatographic interferences. The BS surrogate recovery was acceptable.

Method: 552_DALAPON, S7L0255-CCV2: The recovery of compounds in the bracketing continuing calibration verification (CCV) were, above the 115% laboratory control limit. However, Dalapon not detected in the associated samples, and therefore the samples were reported.

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Client Sample Results

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AW-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:00
Matrix: Groundwater
Lab ID: 17K0134-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**732**			uS/cm	11/09/17 10:00	B7K0999	SDS
Method: SM2550-B							
Temperature	**56.2**			°F	11/09/17 10:00	B7K0999	SDS
Method: SM4500-H							
pH	**6.92**	0.05		pH Units	11/09/17 10:00	B7K0999	SDS
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	11/29/17 21:12	B7K0971	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Arsenic	**172**	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Barium	**230**	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Beryllium	< 2.50	2.50		ug/L	11/21/17 11:01	B7K0447	AG
Boron	**206**	12.5		ug/L	11/21/17 11:01	B7K0447	AG
Cadmium	< 2.50	2.50		ug/L	11/21/17 11:01	B7K0447	AG
Calcium	**77.7**	1.25		mg/L	01/08/18 13:54	B8A0185	AG
Chromium	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Cobalt	< 25.0	25.0		ug/L	11/28/17 15:50	B7K0798	MLB
Copper	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Iron	**14100**	125		ug/L	11/21/17 11:01	B7K0447	AG
Lead	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Manganese	**420**	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/28/17 15:50	B7K0798	MLB
Nickel	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Selenium	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Silver	< 2.50	2.50		ug/L	11/21/17 11:01	B7K0447	AG
Thallium	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Zinc	< 25.0	25.0		ug/L	11/21/17 11:01	B7K0447	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/14/17 12:08	B7K0442	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**26.2**	3.00		mg/L	11/10/17 23:42	B7K0328	SK2
Fluoride	**1.10**	0.500		mg/L	11/10/17 23:42	B7K0328	SK2
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/10/17 23:42	B7K0328	SK2
Sulfate	< 5.00	5.00		mg/L	11/10/17 23:42	B7K0328	SK2

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AW-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:00
Matrix: Groundwater
Lab ID: 17K0134-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**424**	10.0		mg/L		11/14/17 14:32	B7K0473	JJ2
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/13/17 11:16	B7K0384	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/15/17 12:12	B7K0481	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.535	0.535		ug/L		11/22/17 17:34	B7K0487	LP
alpha-BHC	< 0.0535	0.0535		ug/L		11/22/17 20:40	B7K0487	LP
Atrazine	< 0.535	0.535		ug/L		11/22/17 17:34	B7K0487	LP
Chlordane	< 0.535	0.535		ug/L		11/22/17 20:40	B7K0487	LP
Endrin	< 0.0535	0.0535		ug/L		11/22/17 20:40	B7K0487	LP
Lindane	< 0.0535	0.0535		ug/L		11/22/17 20:40	B7K0487	LP
Heptachlor	< 0.0535	0.0535		ug/L		11/22/17 20:40	B7K0487	LP
Heptachlor epoxide	< 0.0535	0.0535		ug/L		11/22/17 20:40	B7K0487	LP
Methoxychlor	< 0.0535	0.0535		ug/L		11/22/17 20:40	B7K0487	LP
Simazine	< 0.535	0.535		ug/L		11/22/17 17:34	B7K0487	LP
Toxaphene	< 2.14	2.14		ug/L		11/22/17 20:40	B7K0487	LP
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 30-109*	*11/22/17 20:40*	*B7K0487*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 65%*	*Limits: 21-124*	*11/22/17 20:40*	*B7K0487*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Total PCB	< 1.07	1.07		ug/L		11/15/17 20:12	B7K0489	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 83%*	*Limits: 40-135*	*11/15/17 20:12*	*B7K0489*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 62%*	*Limits: 13-133*	*11/15/17 20:12*	*B7K0489*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/21/17 09:15	B7K0742	AMP
Carbofuran	< 2.00	2.00		ug/L		11/21/17 09:15	B7K0742	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.57	1.57		ug/L		11/16/17 00:06	B7K0503	AMP
2,4-D	< 1.57	1.57		ug/L		11/16/17 00:06	B7K0503	AMP
Dicamba	< 1.57	1.57		ug/L		11/16/17 00:06	B7K0503	AMP
Dinoseb	< 1.57	1.57		ug/L		11/16/17 00:06	B7K0503	AMP
Picloram	< 1.57	1.57		ug/L		11/16/17 00:06	B7K0503	AMP
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 80%*	*Limits: 37-128*	*11/16/17 00:06*	*B7K0503*	*AMP*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AW-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:00
Matrix: Groundwater
Lab ID: 17K0134-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L		11/10/17 17:42	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L		11/10/17 17:42	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
p-Dioxane	< 200	200		ug/L		11/10/17 17:42	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L		11/10/17 17:42	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L		11/10/17 17:42	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L		11/10/17 17:42	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L		11/10/17 17:42	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L		11/10/17 17:42	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L		11/10/17 17:42	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L		11/10/17 17:42	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L		11/10/17 17:42	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L		11/10/17 17:42	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L		11/10/17 17:42	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L		11/10/17 17:42	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L		11/10/17 17:42	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 93%*	*Limits: 84-137*	*11/10/17 17:42*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 104%*	*Limits: 87-127*	*11/10/17 17:42*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*11/10/17 17:42*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%*	*Limits: 85-112*	*11/10/17 17:42*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 100%*	*Limits: 82-125*	*11/10/17 17:42*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 113%*	*Limits: 87-138*	*11/10/17 17:42*	*B7K0413*	*FP1*
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		12/06/17 13:49	B7L0581	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		12/06/17 13:49	B7L0581	LP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AW-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:00
Matrix: Groundwater
Lab ID: 17K0134-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		12/06/17 11:12	B7L0344	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 82%*	*Limits: 70-130*	*12/06/17 11:12*	*B7L0344*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.08	4.08		ug/L		11/17/17 18:21	B7K0590	BW1
o-Dichlorobenzene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
p-Dichlorobenzene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
2-Methylnaphthalene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
2-Methylphenol	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Acenaphthene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Anthracene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Benzo(a)anthracene	< 4.08	4.08		ug/L		11/17/17 18:21	B7K0590	BW1
Benzo(a)pyrene	< 4.08	4.08		ug/L		11/17/17 18:21	B7K0590	BW1
Benzo(b)fluoranthene	< 10.2	10.2		ug/L		11/17/17 18:21	B7K0590	BW1
Benzo(k)fluoranthene	< 10.2	10.2		ug/L		11/17/17 18:21	B7K0590	BW1
Benzoic acid	< 51.0	51.0		ug/L		11/17/17 18:21	B7K0590	BW1
Di(2-ethylhexyl)phthalate	< 25.5	25.5		ug/L		11/17/17 18:21	B7K0590	BW1
Chrysene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Dibenzo(a,h)anthracene	< 10.2	10.2		ug/L		11/17/17 18:21	B7K0590	BW1
Diethyl phthalate	< 4.08	4.08		ug/L		11/17/17 18:21	B7K0590	BW1
Di-n-butyl phthalate	< 10.2	10.2		ug/L		11/17/17 18:21	B7K0590	BW1
Fluoranthene	< 4.08	4.08		ug/L		11/17/17 18:21	B7K0590	BW1
Fluorene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Hexachlorocyclopentadiene	< 10.2	10.2		ug/L		11/17/17 18:21	B7K0590	BW1
Indeno(1,2,3-cd)pyrene	< 25.5	25.5		ug/L		11/17/17 18:21	B7K0590	BW1
Naphthalene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Pentachlorophenol	< 51.0	51.0		ug/L		11/17/17 18:21	B7K0590	BW1
Pyrene	< 2.04	2.04		ug/L		11/17/17 18:21	B7K0590	BW1
Surrogate: 2-Fluorophenol				*Recovery: 35%*	*Limits: 4-108*	*11/17/17 18:21*	*B7K0590*	*BW1*
Surrogate: Phenol-d5				*Recovery: 25%*	*Limits: 1-101*	*11/17/17 18:21*	*B7K0590*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 56%*	*Limits: 23-119*	*11/17/17 18:21*	*B7K0590*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 58%*	*Limits: 28-124*	*11/17/17 18:21*	*B7K0590*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 40%*	*Limits: 11-102*	*11/17/17 18:21*	*B7K0590*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 91%*	*Limits: 79-147*	*11/17/17 18:21*	*B7K0590*	*BW1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AW-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:00
Matrix: Groundwater
Lab ID: 17K0134-01 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins-Eaton (Underwriters), Subcontract							
Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	11/06/17 00:00	17K0134-01	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.62**	0.09		pCi/L	11/28/17 00:00	17K0134-01	UL
Radium-228	**0.86**	0.49		pCi/L	11/28/17 00:00	17K0134-01	UL
Test America, Denver, CO, Subcontract							
Subcontracted Analyses							
Method: SW6860							
Perchlorate	< 4	4		µg/L	11/14/17 00:00	17K0134-01	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-1
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:15
Matrix: Groundwater
Lab ID: 17K0134-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1540**			uS/cm	11/09/17 11:15	B7K0999	CD
Method: SM2550-B							
Temperature	**59.4**			°F	11/09/17 11:15	B7K0999	CD
Method: SM4500-H							
pH	**6.89**	0.05		pH Units	11/09/17 11:15	B7K0999	CD
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	11/29/17 21:16	B7K0971	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Arsenic	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Barium	**662**	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Beryllium	< 2.50	2.50		ug/L	11/21/17 11:03	B7K0447	AG
Boron	**20300**	125		ug/L	11/21/17 11:54	B7K0447	AG
Cadmium	< 2.50	2.50		ug/L	11/21/17 11:03	B7K0447	AG
Calcium	**259**	1.25		mg/L	01/08/18 13:56	B8A0185	AG
Chromium	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Cobalt	< 25.0	25.0		ug/L	11/28/17 15:52	B7K0798	MLB
Copper	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Iron	**24500**	125		ug/L	11/21/17 11:03	B7K0447	AG
Lead	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Manganese	**459**	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/28/17 15:52	B7K0798	MLB
Nickel	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Selenium	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Silver	< 2.50	2.50		ug/L	11/21/17 11:03	B7K0447	AG
Thallium	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Vanadium	< 25.0	25.0		ug/L	11/28/17 15:52	B7K0798	MLB
Zinc	< 25.0	25.0		ug/L	11/21/17 11:03	B7K0447	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/14/17 12:10	B7K0442	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**54.1**	30.0		mg/L	11/13/17 20:58	B7K0328	SK2
Fluoride	< 0.500	0.500		mg/L	11/11/17 01:37	B7K0328	SK2
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/11/17 01:37	B7K0328	SK2
Sulfate	**664**	50.0		mg/L	11/13/17 20:58	B7K0393	SK2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-1
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:15
Matrix: Groundwater
Lab ID: 17K0134-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**1420**	10.0		mg/L		11/14/17 14:32	B7K0473	JJ2
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/13/17 11:16	B7K0384	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/15/17 12:12	B7K0481	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.526	0.526		ug/L		11/22/17 18:21	B7K0487	LP
alpha-BHC	< 0.0526	0.0526		ug/L		11/22/17 21:27	B7K0487	LP
Atrazine	< 0.526	0.526		ug/L		11/22/17 18:21	B7K0487	LP
Chlordane	< 0.526	0.526		ug/L		11/22/17 21:27	B7K0487	LP
Endrin	< 0.0526	0.0526		ug/L		11/22/17 21:27	B7K0487	LP
Lindane	< 0.0526	0.0526		ug/L		11/22/17 21:27	B7K0487	LP
Heptachlor	< 0.0526	0.0526		ug/L		11/22/17 21:27	B7K0487	LP
Heptachlor epoxide	< 0.0526	0.0526		ug/L		11/22/17 21:27	B7K0487	LP
Methoxychlor	< 0.0526	0.0526		ug/L		11/22/17 21:27	B7K0487	LP
Simazine	< 0.526	0.526		ug/L		11/22/17 18:21	B7K0487	LP
Toxaphene	< 2.10	2.10		ug/L		11/22/17 21:27	B7K0487	LP
Surrogate: Decachlorobiphenyl				*Recovery: 86%*	*Limits: 30-109*	*11/22/17 21:27*	*B7K0487*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 41%*	*Limits: 21-124*	*11/22/17 21:27*	*B7K0487*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Total PCB	< 1.05	1.05		ug/L		11/15/17 20:39	B7K0489	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 119%*	*Limits: 40-135*	*11/15/17 20:39*	*B7K0489*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 13-133*	*11/15/17 20:39*	*B7K0489*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/21/17 09:51	B7K0742	AMP
Carbofuran	< 2.00	2.00		ug/L		11/21/17 09:51	B7K0742	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.58	1.58		ug/L		11/16/17 00:48	B7K0503	AMP
2,4-D	< 1.58	1.58		ug/L		11/16/17 00:48	B7K0503	AMP
Dicamba	< 1.58	1.58		ug/L		11/16/17 00:48	B7K0503	AMP
Dinoseb	< 1.58	1.58		ug/L		11/16/17 00:48	B7K0503	AMP
Picloram	< 1.58	1.58		ug/L		11/16/17 00:48	B7K0503	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-1
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:15
Matrix: Groundwater
Lab ID: 17K0134-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)							
Method: SW8321B / SW3510 (Continued)							
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 76%* *Limits: 37-128*	*11/16/17 00:48*	*B7K0503*	*AMP*
Volatile Organic Compounds by GC/MS							
Method: SW8260B / SW5030							
1,1,1-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L	11/10/17 18:14	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L	11/10/17 18:14	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
p-Dioxane	< 200	200		ug/L	11/10/17 18:14	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L	11/10/17 18:14	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L	11/10/17 18:14	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L	11/10/17 18:14	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L	11/10/17 18:14	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L	11/10/17 18:14	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L	11/10/17 18:14	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L	11/10/17 18:14	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L	11/10/17 18:14	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L	11/10/17 18:14	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L	11/10/17 18:14	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L	11/10/17 18:14	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L	11/10/17 18:14	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 93%* *Limits: 84-137*	*11/10/17 18:14*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 105%* *Limits: 87-127*	*11/10/17 18:14*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%* *Limits: 80-116*	*11/10/17 18:14*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 96%* *Limits: 85-112*	*11/10/17 18:14*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 94%* *Limits: 82-125*	*11/10/17 18:14*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 109%* *Limits: 87-138*	*11/10/17 18:14*	*B7K0413*	*FP1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-1
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:15
Matrix: Groundwater
Lab ID: 17K0134-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.179	0.179		ug/L		12/06/17 14:21	B7L0581	LP
Ethylene Dibromide	< 0.179	0.179		ug/L		12/06/17 14:21	B7L0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		12/06/17 13:12	B7L0344	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 97%*	*Limits: 70-130*	*12/06/17 13:12*	*B7L0344*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.07	4.07		ug/L		11/17/17 18:54	B7K0590	BW1
o-Dichlorobenzene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
p-Dichlorobenzene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
2-Methylnaphthalene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
2-Methylphenol	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Acenaphthene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Anthracene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Benzo(a)anthracene	< 4.07	4.07		ug/L		11/17/17 18:54	B7K0590	BW1
Benzo(a)pyrene	< 4.07	4.07		ug/L		11/17/17 18:54	B7K0590	BW1
Benzo(b)fluoranthene	< 10.2	10.2		ug/L		11/17/17 18:54	B7K0590	BW1
Benzo(k)fluoranthene	< 10.2	10.2		ug/L		11/17/17 18:54	B7K0590	BW1
Benzoic acid	< 50.9	50.9		ug/L		11/17/17 18:54	B7K0590	BW1
Di(2-ethylhexyl)phthalate	< 25.5	25.5		ug/L		11/17/17 18:54	B7K0590	BW1
Chrysene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Dibenzo(a,h)anthracene	< 10.2	10.2		ug/L		11/17/17 18:54	B7K0590	BW1
Diethyl phthalate	< 4.07	4.07		ug/L		11/17/17 18:54	B7K0590	BW1
Di-n-butyl phthalate	< 10.2	10.2		ug/L		11/17/17 18:54	B7K0590	BW1
Fluoranthene	< 4.07	4.07		ug/L		11/17/17 18:54	B7K0590	BW1
Fluorene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Hexachlorocyclopentadiene	< 10.2	10.2		ug/L		11/17/17 18:54	B7K0590	BW1
Indeno(1,2,3-cd)pyrene	< 25.5	25.5		ug/L		11/17/17 18:54	B7K0590	BW1
Naphthalene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Pentachlorophenol	< 50.9	50.9		ug/L		11/17/17 18:54	B7K0590	BW1
Pyrene	< 2.04	2.04		ug/L		11/17/17 18:54	B7K0590	BW1
Surrogate: 2-Fluorophenol				*Recovery: 15%*	*Limits: 4-108*	*11/17/17 18:54*	*B7K0590*	*BW1*
Surrogate: Phenol-d5				*Recovery: 11%*	*Limits: 1-101*	*11/17/17 18:54*	*B7K0590*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 25%*	*Limits: 23-119*	*11/17/17 18:54*	*B7K0590*	*BW1*
Surrogate: 2-Fluorobiphenyl			*S*	*Recovery: 27%*	*Limits: 28-124*	*11/17/17 18:54*	*B7K0590*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 17%*	*Limits: 11-102*	*11/17/17 18:54*	*B7K0590*	*BW1*
Surrogate: 4-Terphenyl-d14			*S*	*Recovery: 69%*	*Limits: 79-147*	*11/17/17 18:54*	*B7K0590*	*BW1*

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-1
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:15
Matrix: Groundwater
Lab ID: 17K0134-02 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins-Eaton (Underwriters), Subcontract							
Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	11/06/17 00:00	17K0134-02	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.89**	0.11		pCi/L	11/28/17 00:00	17K0134-02	UL
Radium-228	**1.1**	0.53		pCi/L	11/28/17 00:00	17K0134-02	UL
Test America, Denver, CO, Subcontract							
Subcontracted Analyses							
Method: SW6860							
Perchlorate	< 4	4		µg/L	11/14/17 00:00	17K0134-02	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-2
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:20
Matrix: Groundwater
Lab ID: 17K0134-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1210**			uS/cm	11/09/17 10:20	B7K0999	CD
Method: SM2550-B							
Temperature	**61.8**			°F	11/09/17 10:20	B7K0999	CD
Method: SM4500-H							
pH	**6.78**	0.05		pH Units	11/09/17 10:20	B7K0999	CD
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	11/29/17 21:20	B7K0971	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Arsenic	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Barium	**76.5**	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Beryllium	< 2.50	2.50		ug/L	11/21/17 11:04	B7K0447	AG
Boron	**3160**	12.5		ug/L	11/21/17 11:04	B7K0447	AG
Cadmium	< 2.50	2.50		ug/L	11/21/17 11:04	B7K0447	AG
Calcium	**203**	1.25		mg/L	01/08/18 13:57	B8A0185	AG
Chromium	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Cobalt	< 25.0	25.0		ug/L	11/28/17 15:57	B7K0798	MLB
Copper	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Iron	**1470**	125		ug/L	11/21/17 11:04	B7K0447	AG
Lead	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Manganese	**8500**	250		ug/L	11/21/17 11:56	B7K0447	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/28/17 15:57	B7K0798	MLB
Nickel	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Selenium	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Silver	< 2.50	2.50		ug/L	11/21/17 11:04	B7K0447	AG
Thallium	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Vanadium	< 25.0	25.0		ug/L	11/28/17 15:57	B7K0798	MLB
Zinc	< 25.0	25.0		ug/L	11/21/17 11:04	B7K0447	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/14/17 12:11	B7K0442	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**45.6**	3.00		mg/L	11/11/17 02:06	B7K0328	SK2
Chloride	**48.6**	30.0		mg/L	11/13/17 21:26	B7K0393	SK2
Fluoride	< 0.500	0.500		mg/L	11/11/17 02:06	B7K0328	SK2
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/11/17 02:06	B7K0328	SK2

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Client Sample Results

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Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-2
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:20
Matrix: Groundwater
Lab ID: 17K0134-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Method: SW9056A (Continued)								
Sulfate	**348**	50.0		mg/L		11/13/17 21:26	B7K0393	SK2
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**966**	10.0		mg/L		11/14/17 14:32	B7K0473	JJ2
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/13/17 11:16	B7K0384	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/15/17 12:12	B7K0481	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.517	0.517		ug/L		11/22/17 23:00	B7K0487	LP
alpha-BHC	< 0.0517	0.0517		ug/L		11/22/17 22:13	B7K0487	LP
Atrazine	< 0.517	0.517		ug/L		11/22/17 23:00	B7K0487	LP
Chlordane	< 0.517	0.517		ug/L		11/22/17 22:13	B7K0487	LP
Endrin	< 0.0517	0.0517		ug/L		11/22/17 22:13	B7K0487	LP
Lindane	< 0.0517	0.0517		ug/L		11/22/17 22:13	B7K0487	LP
Heptachlor	< 0.0517	0.0517		ug/L		11/22/17 22:13	B7K0487	LP
Heptachlor epoxide	< 0.0517	0.0517		ug/L		11/22/17 22:13	B7K0487	LP
Methoxychlor	< 0.0517	0.0517		ug/L		11/22/17 22:13	B7K0487	LP
Simazine	< 0.517	0.517		ug/L		11/22/17 23:00	B7K0487	LP
Toxaphene	< 2.07	2.07		ug/L		11/22/17 22:13	B7K0487	LP
Surrogate: Decachlorobiphenyl				*Recovery: 74%*	*Limits: 30-109*	*11/22/17 22:13*	*B7K0487*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 35%*	*Limits: 21-124*	*11/22/17 22:13*	*B7K0487*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Total PCB	< 1.03	1.03		ug/L		11/15/17 21:05	B7K0489	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 88%*	*Limits: 40-135*	*11/15/17 21:05*	*B7K0489*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 39%*	*Limits: 13-133*	*11/15/17 21:05*	*B7K0489*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/21/17 10:27	B7K0742	AMP
Carbofuran	< 2.00	2.00		ug/L		11/21/17 10:27	B7K0742	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.49	1.49		ug/L		11/16/17 01:29	B7K0503	AMP
2,4-D	< 1.49	1.49		ug/L		11/16/17 01:29	B7K0503	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-2
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:20
Matrix: Groundwater
Lab ID: 17K0134-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)								
Method: SW8321B / SW3510 (Continued)								
Dicamba	< 1.49	1.49		ug/L		11/16/17 01:29	B7K0503	AMP
Dinoseb	< 1.49	1.49		ug/L		11/16/17 01:29	B7K0503	AMP
Picloram	< 1.49	1.49		ug/L		11/16/17 01:29	B7K0503	AMP
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 63%*	*Limits: 37-128*	*11/16/17 01:29*	*B7K0503*	*AMP*
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L		11/10/17 18:46	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L		11/10/17 18:46	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
p-Dioxane	< 200	200		ug/L		11/10/17 18:46	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L		11/10/17 18:46	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L		11/10/17 18:46	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L		11/10/17 18:46	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L		11/10/17 18:46	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L		11/10/17 18:46	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L		11/10/17 18:46	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L		11/10/17 18:46	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L		11/10/17 18:46	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L		11/10/17 18:46	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L		11/10/17 18:46	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L		11/10/17 18:46	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L		11/10/17 18:46	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 99%*	*Limits: 84-137*	*11/10/17 18:46*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 108%*	*Limits: 87-127*	*11/10/17 18:46*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 100%*	*Limits: 80-116*	*11/10/17 18:46*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 93%*	*Limits: 85-112*	*11/10/17 18:46*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 92%*	*Limits: 82-125*	*11/10/17 18:46*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 111%*	*Limits: 87-138*	*11/10/17 18:46*	*B7K0413*	*FP1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-2
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:20
Matrix: Groundwater
Lab ID: 17K0134-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		12/06/17 14:52	B7L0581	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		12/06/17 14:52	B7L0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		12/06/17 14:30	B7L0344	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 71%*	*Limits: 70-130*	*12/06/17 14:30*	*B7L0344*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.06	4.06		ug/L		11/17/17 19:27	B7K0590	BW1
o-Dichlorobenzene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
p-Dichlorobenzene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
2-Methylnaphthalene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
2-Methylphenol	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Acenaphthene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Anthracene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Benzo(a)anthracene	< 4.06	4.06		ug/L		11/17/17 19:27	B7K0590	BW1
Benzo(a)pyrene	< 4.06	4.06		ug/L		11/17/17 19:27	B7K0590	BW1
Benzo(b)fluoranthene	< 10.2	10.2		ug/L		11/17/17 19:27	B7K0590	BW1
Benzo(k)fluoranthene	< 10.2	10.2		ug/L		11/17/17 19:27	B7K0590	BW1
Benzoic acid	< 50.8	50.8		ug/L		11/17/17 19:27	B7K0590	BW1
Di(2-ethylhexyl)phthalate	< 25.4	25.4		ug/L		11/17/17 19:27	B7K0590	BW1
Chrysene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Dibenzo(a,h)anthracene	< 10.2	10.2		ug/L		11/17/17 19:27	B7K0590	BW1
Diethyl phthalate	< 4.06	4.06		ug/L		11/17/17 19:27	B7K0590	BW1
Di-n-butyl phthalate	< 10.2	10.2		ug/L		11/17/17 19:27	B7K0590	BW1
Fluoranthene	< 4.06	4.06		ug/L		11/17/17 19:27	B7K0590	BW1
Fluorene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Hexachlorocyclopentadiene	< 10.2	10.2		ug/L		11/17/17 19:27	B7K0590	BW1
Indeno(1,2,3-cd)pyrene	< 25.4	25.4		ug/L		11/17/17 19:27	B7K0590	BW1
Naphthalene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Pentachlorophenol	< 50.8	50.8		ug/L		11/17/17 19:27	B7K0590	BW1
Pyrene	< 2.03	2.03		ug/L		11/17/17 19:27	B7K0590	BW1
Surrogate: 2-Fluorophenol				*Recovery: 17%*	*Limits: 4-108*	*11/17/17 19:27*	*B7K0590*	*BW1*
Surrogate: Phenol-d5				*Recovery: 16%*	*Limits: 1-101*	*11/17/17 19:27*	*B7K0590*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 50%*	*Limits: 23-119*	*11/17/17 19:27*	*B7K0590*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 54%*	*Limits: 28-124*	*11/17/17 19:27*	*B7K0590*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 28%*	*Limits: 11-102*	*11/17/17 19:27*	*B7K0590*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 105%*	*Limits: 79-147*	*11/17/17 19:27*	*B7K0590*	*BW1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-2
Report Date: 01/09/2018
Collection Date: 11/09/2017 10:20
Matrix: Groundwater
Lab ID: 17K0134-03 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins-Eaton (Underwriters), Subcontract							
Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	11/06/17 00:00	17K0134-03	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.37**	0.1		pCi/L	11/28/17 00:00	17K0134-03	UL
Radium-228	**1.8**	0.76		pCi/L	11/28/17 00:00	17K0134-03	UL
Test America, Denver, CO, Subcontract							
Subcontracted Analyses							
Method: SW6860							
Perchlorate	< 4	4		µg/L	11/14/17 00:00	17K0134-03	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 09:30
Matrix: Groundwater
Lab ID: 17K0134-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**1070**			uS/cm	11/09/17 09:30	B7K0999	CD
Method: SM2550-B							
Temperature	**59.9**			°F	11/09/17 09:30	B7K0999	CD
Method: SM4500-H							
pH	**6.95**	0.05		pH Units	11/09/17 09:30	B7K0999	CD
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	11/29/17 21:24	B7K0971	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Arsenic	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Barium	**99.7**	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Beryllium	< 2.50	2.50		ug/L	11/21/17 11:06	B7K0447	AG
Boron	**19200**	125		ug/L	11/21/17 12:03	B7K0447	AG
Cadmium	< 2.50	2.50		ug/L	11/21/17 11:06	B7K0447	AG
Calcium	**176**	1.25		mg/L	01/08/18 13:59	B8A0185	AG
Chromium	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Cobalt	< 25.0	25.0		ug/L	11/28/17 15:59	B7K0798	MLB
Copper	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Iron	**11500**	125		ug/L	11/21/17 11:06	B7K0447	AG
Lead	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Manganese	**7520**	250		ug/L	11/21/17 12:03	B7K0447	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/28/17 15:59	B7K0798	MLB
Nickel	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Selenium	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Silver	< 2.50	2.50		ug/L	11/21/17 11:06	B7K0447	AG
Thallium	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Vanadium	< 25.0	25.0		ug/L	11/28/17 15:59	B7K0798	MLB
Zinc	< 25.0	25.0		ug/L	11/21/17 11:06	B7K0447	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/14/17 12:13	B7K0442	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**40.9**	30.0		mg/L	11/13/17 22:52	B7K0328	SK2
Fluoride	< 0.500	0.500		mg/L	11/11/17 02:35	B7K0328	SK2
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/11/17 02:35	B7K0328	SK2
Sulfate	**319**	50.0		mg/L	11/13/17 22:52	B7K0393	SK2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 09:30
Matrix: Groundwater
Lab ID: 17K0134-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**848**	10.0		mg/L		11/14/17 14:32	B7K0473	JJ2
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/13/17 11:16	B7K0384	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/15/17 12:12	B7K0481	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.541	0.541		ug/L		11/22/17 23:47	B7K0487	LP
alpha-BHC	< 0.0541	0.0541		ug/L		11/22/17 23:00	B7K0487	LP
Atrazine	< 0.541	0.541		ug/L		11/22/17 23:47	B7K0487	LP
Chlordane	< 0.541	0.541		ug/L		11/22/17 23:00	B7K0487	LP
Endrin	< 0.0541	0.0541		ug/L		11/22/17 23:00	B7K0487	LP
Lindane	< 0.0541	0.0541		ug/L		11/22/17 23:00	B7K0487	LP
Heptachlor	< 0.0541	0.0541		ug/L		11/22/17 23:00	B7K0487	LP
Heptachlor epoxide	< 0.0541	0.0541		ug/L		11/22/17 23:00	B7K0487	LP
Methoxychlor	< 0.0541	0.0541		ug/L		11/22/17 23:00	B7K0487	LP
Simazine	< 0.541	0.541		ug/L		11/22/17 23:47	B7K0487	LP
Toxaphene	< 2.16	2.16		ug/L		11/22/17 23:00	B7K0487	LP
Surrogate: Decachlorobiphenyl				*Recovery: 96%*	*Limits: 30-109*	*11/22/17 23:00*	*B7K0487*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 63%*	*Limits: 21-124*	*11/22/17 23:00*	*B7K0487*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Total PCB	< 1.08	1.08		ug/L		11/15/17 21:32	B7K0489	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 120%*	*Limits: 40-135*	*11/15/17 21:32*	*B7K0489*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 62%*	*Limits: 13-133*	*11/15/17 21:32*	*B7K0489*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/21/17 11:14	B7K0742	AMP
Carbofuran	< 2.00	2.00		ug/L		11/21/17 11:14	B7K0742	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.60	1.60		ug/L		11/16/17 02:11	B7K0503	AMP
2,4-D	< 1.60	1.60		ug/L		11/16/17 02:11	B7K0503	AMP
Dicamba	< 1.60	1.60		ug/L		11/16/17 02:11	B7K0503	AMP
Dinoseb	< 1.60	1.60		ug/L		11/16/17 02:11	B7K0503	AMP
Picloram	< 1.60	1.60		ug/L		11/16/17 02:11	B7K0503	AMP

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Environmental Monitoring and Technologies, Inc.

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 09:30
Matrix: Groundwater
Lab ID: 17K0134-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)							
Method: SW8321B / SW3510 (Continued)							
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 75%* *Limits: 37-128*	*11/16/17 02:11*	*B7K0503*	*AMP*
Volatile Organic Compounds by GC/MS							
Method: SW8260B / SW5030							
1,1,1-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L	11/10/17 19:18	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L	11/10/17 19:18	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
p-Dioxane	< 200	200		ug/L	11/10/17 19:18	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L	11/10/17 19:18	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L	11/10/17 19:18	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L	11/10/17 19:18	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L	11/10/17 19:18	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L	11/10/17 19:18	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L	11/10/17 19:18	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L	11/10/17 19:18	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L	11/10/17 19:18	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L	11/10/17 19:18	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L	11/10/17 19:18	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L	11/10/17 19:18	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L	11/10/17 19:18	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 100%* *Limits: 84-137*	*11/10/17 19:18*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 103%* *Limits: 87-127*	*11/10/17 19:18*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%* *Limits: 80-116*	*11/10/17 19:18*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%* *Limits: 85-112*	*11/10/17 19:18*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 101%* *Limits: 82-125*	*11/10/17 19:18*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 113%* *Limits: 87-138*	*11/10/17 19:18*	*B7K0413*	*FP1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 09:30
Matrix: Groundwater
Lab ID: 17K0134-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.184	0.184		ug/L		12/06/17 15:23	B7L0581	LP
Ethylene Dibromide	< 0.184	0.184		ug/L		12/06/17 15:23	B7L0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		12/06/17 15:07	B7L0344	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 71%*	*Limits: 70-130*	*12/06/17 15:07*	*B7L0344*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.18	4.18		ug/L		11/17/17 20:01	B7K0590	BW1
o-Dichlorobenzene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
p-Dichlorobenzene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
2-Methylnaphthalene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
2-Methylphenol	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Acenaphthene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Anthracene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Benzo(a)anthracene	< 4.18	4.18		ug/L		11/17/17 20:01	B7K0590	BW1
Benzo(a)pyrene	< 4.18	4.18		ug/L		11/17/17 20:01	B7K0590	BW1
Benzo(b)fluoranthene	< 10.4	10.4		ug/L		11/17/17 20:01	B7K0590	BW1
Benzo(k)fluoranthene	< 10.4	10.4		ug/L		11/17/17 20:01	B7K0590	BW1
Benzoic acid	< 52.2	52.2		ug/L		11/17/17 20:01	B7K0590	BW1
Di(2-ethylhexyl)phthalate	< 26.1	26.1		ug/L		11/17/17 20:01	B7K0590	BW1
Chrysene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Dibenzo(a,h)anthracene	< 10.4	10.4		ug/L		11/17/17 20:01	B7K0590	BW1
Diethyl phthalate	< 4.18	4.18		ug/L		11/17/17 20:01	B7K0590	BW1
Di-n-butyl phthalate	< 10.4	10.4		ug/L		11/17/17 20:01	B7K0590	BW1
Fluoranthene	< 4.18	4.18		ug/L		11/17/17 20:01	B7K0590	BW1
Fluorene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Hexachlorocyclopentadiene	< 10.4	10.4		ug/L		11/17/17 20:01	B7K0590	BW1
Indeno(1,2,3-cd)pyrene	< 26.1	26.1		ug/L		11/17/17 20:01	B7K0590	BW1
Naphthalene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Pentachlorophenol	< 52.2	52.2		ug/L		11/17/17 20:01	B7K0590	BW1
Pyrene	< 2.09	2.09		ug/L		11/17/17 20:01	B7K0590	BW1
Surrogate: 2-Fluorophenol				*Recovery: 25%*	*Limits: 4-108*	*11/17/17 20:01*	*B7K0590*	*BW1*
Surrogate: Phenol-d5				*Recovery: 20%*	*Limits: 1-101*	*11/17/17 20:01*	*B7K0590*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 48%*	*Limits: 23-119*	*11/17/17 20:01*	*B7K0590*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 49%*	*Limits: 28-124*	*11/17/17 20:01*	*B7K0590*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 23%*	*Limits: 11-102*	*11/17/17 20:01*	*B7K0590*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 79%*	*Limits: 79-147*	*11/17/17 20:01*	*B7K0590*	*BW1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-3
Report Date: 01/09/2018
Collection Date: 11/09/2017 09:30
Matrix: Groundwater
Lab ID: 17K0134-04 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins-Eaton (Underwriters), Subcontract							
Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	11/06/17 00:00	17K0134-04	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.41**	0.11		pCi/L	11/28/17 00:00	17K0134-04	UL
Radium-228	**0.99**	0.67		pCi/L	11/28/17 00:00	17K0134-04	UL
Test America, Denver, CO, Subcontract							
Subcontracted Analyses							
Method: SW6860							
Perchlorate	**0.088 J**	4		µg/L	11/14/17 00:00	17K0134-04	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-4
Report Date: 01/09/2018
Collection Date: 11/09/2017 12:35
Matrix: Groundwater
Lab ID: 17K0134-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**826**			uS/cm	11/09/17 12:35	B7K0999	SDS
Method: SM2550-B							
Temperature	**60.4**			°F	11/09/17 12:35	B7K0999	SDS
Method: SM4500-H							
pH	**7.12**	0.05		pH Units	11/09/17 12:35	B7K0999	SDS
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	11/29/17 21:32	B7K0971	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Arsenic	**26.6**	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Barium	**410**	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Beryllium	< 2.50	2.50		ug/L	11/21/17 11:08	B7K0447	AG
Boron	**129**	12.5		ug/L	11/21/17 11:08	B7K0447	AG
Cadmium	< 2.50	2.50		ug/L	11/21/17 11:08	B7K0447	AG
Calcium	**141**	1.25		mg/L	01/08/18 14:01	B8A0185	AG
Chromium	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Cobalt	< 25.0	25.0		ug/L	11/28/17 16:01	B7K0798	MLB
Copper	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Iron	**14100**	125		ug/L	11/21/17 11:08	B7K0447	AG
Lead	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Manganese	**190**	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/28/17 16:01	B7K0798	MLB
Nickel	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Selenium	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Silver	< 2.50	2.50		ug/L	11/21/17 11:08	B7K0447	AG
Thallium	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Vanadium	< 25.0	25.0		ug/L	11/28/17 16:01	B7K0798	MLB
Zinc	< 25.0	25.0		ug/L	11/21/17 11:08	B7K0447	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/14/17 12:46	B7K0442	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	**12.1**	3.00		mg/L	11/11/17 03:04	B7K0328	SK2
Fluoride	< 0.500	0.500		mg/L	11/11/17 03:04	B7K0328	SK2
Nitrogen, Nitrate	< 0.500	0.500		mg/L	11/11/17 03:04	B7K0328	SK2
Sulfate	< 5.00	5.00		mg/L	11/11/17 03:04	B7K0328	SK2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-4
Report Date: 01/09/2018
Collection Date: 11/09/2017 12:35
Matrix: Groundwater
Lab ID: 17K0134-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**544**	10.0		mg/L		11/14/17 14:32	B7K0473	JJ2
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/13/17 11:16	B7K0384	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/15/17 12:12	B7K0481	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.518	0.518		ug/L		11/23/17 00:33	B7K0487	LP
alpha-BHC	< 0.0518	0.0518		ug/L		11/22/17 23:47	B7K0487	LP
Atrazine	< 0.518	0.518		ug/L		11/23/17 00:33	B7K0487	LP
Chlordane	< 0.518	0.518		ug/L		11/22/17 23:47	B7K0487	LP
Endrin	< 0.0518	0.0518		ug/L		11/22/17 23:47	B7K0487	LP
Lindane	< 0.0518	0.0518		ug/L		11/22/17 23:47	B7K0487	LP
Heptachlor	< 0.0518	0.0518		ug/L		11/22/17 23:47	B7K0487	LP
Heptachlor epoxide	< 0.0518	0.0518		ug/L		11/22/17 23:47	B7K0487	LP
Methoxychlor	< 0.0518	0.0518		ug/L		11/22/17 23:47	B7K0487	LP
Simazine	< 0.518	0.518		ug/L		11/23/17 00:33	B7K0487	LP
Toxaphene	< 2.07	2.07		ug/L		11/22/17 23:47	B7K0487	LP
Surrogate: Decachlorobiphenyl				*Recovery: 74%*	*Limits: 30-109*	*11/22/17 23:47*	*B7K0487*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 51%*	*Limits: 21-124*	*11/22/17 23:47*	*B7K0487*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Total PCB	< 1.04	1.04		ug/L		11/15/17 21:59	B7K0489	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 95%*	*Limits: 40-135*	*11/15/17 21:59*	*B7K0489*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 50%*	*Limits: 13-133*	*11/15/17 21:59*	*B7K0489*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/21/17 11:50	B7K0742	AMP
Carbofuran	< 2.00	2.00		ug/L		11/21/17 11:50	B7K0742	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.54	1.54		ug/L		11/16/17 02:52	B7K0503	AMP
2,4-D	< 1.54	1.54		ug/L		11/16/17 02:52	B7K0503	AMP
Dicamba	< 1.54	1.54		ug/L		11/16/17 02:52	B7K0503	AMP
Dinoseb	< 1.54	1.54		ug/L		11/16/17 02:52	B7K0503	AMP
Picloram	< 1.54	1.54		ug/L		11/16/17 02:52	B7K0503	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-4
Report Date: 01/09/2018
Collection Date: 11/09/2017 12:35
Matrix: Groundwater
Lab ID: 17K0134-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)							
Method: SW8321B / SW3510 (Continued)							
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 82%* *Limits: 37-128*	*11/16/17 02:52*	*B7K0503*	*AMP*
Volatile Organic Compounds by GC/MS							
Method: SW8260B / SW5030							
1,1,1-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L	11/10/17 19:50	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L	11/10/17 19:50	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
p-Dioxane	< 200	200		ug/L	11/10/17 19:50	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L	11/10/17 19:50	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L	11/10/17 19:50	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L	11/10/17 19:50	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L	11/10/17 19:50	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L	11/10/17 19:50	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L	11/10/17 19:50	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L	11/10/17 19:50	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L	11/10/17 19:50	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L	11/10/17 19:50	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L	11/10/17 19:50	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L	11/10/17 19:50	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L	11/10/17 19:50	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 93%* *Limits: 84-137*	*11/10/17 19:50*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 109%* *Limits: 87-127*	*11/10/17 19:50*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%* *Limits: 80-116*	*11/10/17 19:50*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 95%* *Limits: 85-112*	*11/10/17 19:50*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%* *Limits: 82-125*	*11/10/17 19:50*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 114%* *Limits: 87-138*	*11/10/17 19:50*	*B7K0413*	*FP1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-4
Report Date: 01/09/2018
Collection Date: 11/09/2017 12:35
Matrix: Groundwater
Lab ID: 17K0134-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.179	0.179		ug/L		12/06/17 15:55	B7L0581	LP
Ethylene Dibromide	< 0.179	0.179		ug/L		12/06/17 15:55	B7L0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		12/06/17 15:44	B7L0344	LP
Surrogate: 2,4-Dichlorophenylacetic acid			*S*	*Recovery: 144%*	*Limits: 70-130*	*12/06/17 15:44*	*B7L0344*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.21	4.21		ug/L		11/17/17 20:34	B7K0590	BW1
o-Dichlorobenzene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
p-Dichlorobenzene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
2-Methylnaphthalene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
2-Methylphenol	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Acenaphthene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Anthracene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Benzo(a)anthracene	< 4.21	4.21		ug/L		11/17/17 20:34	B7K0590	BW1
Benzo(a)pyrene	< 4.21	4.21		ug/L		11/17/17 20:34	B7K0590	BW1
Benzo(b)fluoranthene	< 10.5	10.5		ug/L		11/17/17 20:34	B7K0590	BW1
Benzo(k)fluoranthene	< 10.5	10.5		ug/L		11/17/17 20:34	B7K0590	BW1
Benzoic acid	< 52.6	52.6		ug/L		11/17/17 20:34	B7K0590	BW1
Di(2-ethylhexyl)phthalate	< 26.3	26.3		ug/L		11/17/17 20:34	B7K0590	BW1
Chrysene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Dibenzo(a,h)anthracene	< 10.5	10.5		ug/L		11/17/17 20:34	B7K0590	BW1
Diethyl phthalate	< 4.21	4.21		ug/L		11/17/17 20:34	B7K0590	BW1
Di-n-butyl phthalate	< 10.5	10.5		ug/L		11/17/17 20:34	B7K0590	BW1
Fluoranthene	< 4.21	4.21		ug/L		11/17/17 20:34	B7K0590	BW1
Fluorene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Hexachlorocyclopentadiene	< 10.5	10.5		ug/L		11/17/17 20:34	B7K0590	BW1
Indeno(1,2,3-cd)pyrene	< 26.3	26.3		ug/L		11/17/17 20:34	B7K0590	BW1
Naphthalene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Pentachlorophenol	< 52.6	52.6		ug/L		11/17/17 20:34	B7K0590	BW1
Pyrene	< 2.10	2.10		ug/L		11/17/17 20:34	B7K0590	BW1
Surrogate: 2-Fluorophenol				*Recovery: 27%*	*Limits: 4-108*	*11/17/17 20:34*	*B7K0590*	*BW1*
Surrogate: Phenol-d5				*Recovery: 21%*	*Limits: 1-101*	*11/17/17 20:34*	*B7K0590*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 41%*	*Limits: 23-119*	*11/17/17 20:34*	*B7K0590*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 47%*	*Limits: 28-124*	*11/17/17 20:34*	*B7K0590*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 30%*	*Limits: 11-102*	*11/17/17 20:34*	*B7K0590*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 97%*	*Limits: 79-147*	*11/17/17 20:34*	*B7K0590*	*BW1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-4
Report Date: 01/09/2018
Collection Date: 11/09/2017 12:35
Matrix: Groundwater
Lab ID: 17K0134-05 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins-Eaton (Underwriters), Subcontract							
Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	11/06/17 00:00	17K0134-05	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**0.69**	0.09		pCi/L	11/28/17 00:00	17K0134-05	UL
Radium-228	**1.3**	0.46		pCi/L	11/28/17 00:00	17K0134-05	UL
Test America, Denver, CO, Subcontract							
Subcontracted Analyses							
Method: SW6860							
Perchlorate	< 4	4		µg/L	11/14/17 00:00	17K0134-05	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-5
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:25
Matrix: Groundwater
Lab ID: 17K0134-06

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
On Site Analysis							
Method: SM2510B							
Specific Conductance	**550**			uS/cm	11/09/17 11:25	B7K0999	SDS
Method: SM2550-B							
Temperature	**56.1**			°F	11/09/17 11:25	B7K0999	SDS
Method: SM4500-H							
pH	**7.19**	0.05		pH Units	11/09/17 11:25	B7K0999	SDS
Metals by ICP-AES							
Method: SW6010C / SW3015							
Lithium	< 0.0500	0.0500		mg/L	11/29/17 21:28	B7K0971	GJ1
Metals by ICP-MS							
Method: SW6020A / SW3015							
Antimony	< 25.0	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Arsenic	< 25.0	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Barium	**308**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Beryllium	< 2.50	2.50		ug/L	11/21/17 11:10	B7K0447	AG
Boron	**73.0**	12.5		ug/L	11/21/17 11:10	B7K0447	AG
Cadmium	< 2.50	2.50		ug/L	11/21/17 11:10	B7K0447	AG
Calcium	**118**	1.25		mg/L	01/08/18 14:11	B8A0185	AG
Chromium	**65.3**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Cobalt	**27.7**	25.0		ug/L	11/28/17 16:02	B7K0798	MLB
Copper	**45.6**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Iron	**62800**	1250		ug/L	11/21/17 12:06	B7K0447	AG
Lead	**28.7**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Manganese	**1460**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Molybdenum	< 0.0250	0.0250		mg/L	11/28/17 16:02	B7K0798	MLB
Nickel	**67.7**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Selenium	< 25.0	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Silver	< 2.50	2.50		ug/L	11/21/17 11:10	B7K0447	AG
Thallium	< 25.0	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Vanadium	**56.8**	25.0		ug/L	11/28/17 16:02	B7K0798	MLB
Zinc	**184**	25.0		ug/L	11/21/17 11:10	B7K0447	AG
Mercury by CVAA							
Method: SW7470A							
Mercury	< 0.50	0.50		ug/L	11/14/17 12:49	B7K0442	GSB
Anions by Ion Chromatography							
Method: SW9056A							
Chloride	< 30.0	30.0		mg/L	11/14/17 00:47	B7K0328	SK2
Fluoride	< 0.500	0.500		mg/L	11/11/17 03:32	B7K0328	SK2
Nitrogen, Nitrate	**1.57**	0.500		mg/L	11/11/17 03:32	B7K0328	SK2
Sulfate	**55.3**	50.0		mg/L	11/14/17 00:47	B7K0393	SK2

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-5
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:25
Matrix: Groundwater
Lab ID: 17K0134-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Anions by Ion Chromatography (Continued)								
Wet Chemistry								
Method: SM2540C								
Total Dissolved Solids (Residue, Filterable)	**470**	10.0		mg/L		11/14/17 14:32	B7K0473	JJ2
Method: SW9014 by Aquachem/MIDI / SW9010B								
Cyanide	< 0.010	0.010		mg/L		11/13/17 11:16	B7K0384	KJ1
Method: SW9065 by Aquachem/MIDI								
Phenolics, Total Recoverable	< 0.0100	0.0100		mg/L		11/15/17 12:12	B7K0481	KJ1
Organochlorine Pesticides by GC/ECD								
Method: SW8081B / SW3510								
Alachlor	< 0.534	0.534		ug/L		11/22/17 22:13	B7K0487	LP
alpha-BHC	< 0.0534	0.0534		ug/L		11/23/17 00:33	B7K0487	LP
Atrazine	< 0.534	0.534		ug/L		11/22/17 22:13	B7K0487	LP
Chlordane	< 0.534	0.534		ug/L		11/23/17 00:33	B7K0487	LP
Endrin	< 0.0534	0.0534		ug/L		11/23/17 00:33	B7K0487	LP
Lindane	< 0.0534	0.0534		ug/L		11/23/17 00:33	B7K0487	LP
Heptachlor	< 0.0534	0.0534		ug/L		11/23/17 00:33	B7K0487	LP
Heptachlor epoxide	< 0.0534	0.0534		ug/L		11/23/17 00:33	B7K0487	LP
Methoxychlor	< 0.0534	0.0534		ug/L		11/23/17 00:33	B7K0487	LP
Simazine	< 0.534	0.534		ug/L		11/22/17 22:13	B7K0487	LP
Toxaphene	< 2.14	2.14		ug/L		11/23/17 00:33	B7K0487	LP
Surrogate: Decachlorobiphenyl				*Recovery: 84%*	*Limits: 30-109*	*11/23/17 00:33*	*B7K0487*	*LP*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 58%*	*Limits: 21-124*	*11/23/17 00:33*	*B7K0487*	*LP*
Polychlorinated Biphenyls (PCBs) by GC/ECD								
Method: SW8082A / SW3510								
Total PCB	< 1.07	1.07		ug/L		11/15/17 22:25	B7K0489	CS2
Surrogate: Decachlorobiphenyl				*Recovery: 118%*	*Limits: 40-135*	*11/15/17 22:25*	*B7K0489*	*CS2*
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				*Recovery: 62%*	*Limits: 13-133*	*11/15/17 22:25*	*B7K0489*	*CS2*
Carbamates by High Pressure Liquid Chromatography (HPLC)								
Method: E531.1								
Aldicarb	< 2.00	2.00		ug/L		11/21/17 12:28	B7K0742	AMP
Carbofuran	< 2.00	2.00		ug/L		11/21/17 12:28	B7K0742	AMP
Herbicides by High Pressure Liquid Chromatography (HPLC)								
Method: SW8321B / SW3510								
2,4,5-TP (Silvex)	< 1.64	1.64		ug/L		11/16/17 03:33	B7K0503	AMP
2,4-D	< 1.64	1.64		ug/L		11/16/17 03:33	B7K0503	AMP
Dicamba	< 1.64	1.64		ug/L		11/16/17 03:33	B7K0503	AMP
Dinoseb	< 1.64	1.64		ug/L		11/16/17 03:33	B7K0503	AMP
Picloram	< 1.64	1.64		ug/L		11/16/17 03:33	B7K0503	AMP

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-5
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:25
Matrix: Groundwater
Lab ID: 17K0134-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Herbicides by High Pressure Liquid Chromatography (HPLC) (Continued)							
Method: SW8321B / SW3510 (Continued)							
Surrogate: 3,5-Dichlorobenzoic Acid				*Recovery: 93%* *Limits: 37-128*	*11/16/17 03:33*	*B7K0503*	*AMP*
Volatile Organic Compounds by GC/MS							
Method: SW8260B / SW5030							
1,1,1-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L	11/10/17 20:21	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L	11/10/17 20:21	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
p-Dioxane	< 200	200		ug/L	11/10/17 20:21	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L	11/10/17 20:21	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L	11/10/17 20:21	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L	11/10/17 20:21	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L	11/10/17 20:21	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L	11/10/17 20:21	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L	11/10/17 20:21	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L	11/10/17 20:21	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L	11/10/17 20:21	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L	11/10/17 20:21	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L	11/10/17 20:21	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L	11/10/17 20:21	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L	11/10/17 20:21	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 102%* *Limits: 84-137*	*11/10/17 20:21*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 108%* *Limits: 87-127*	*11/10/17 20:21*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 98%* *Limits: 80-116*	*11/10/17 20:21*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 98%* *Limits: 85-112*	*11/10/17 20:21*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 98%* *Limits: 82-125*	*11/10/17 20:21*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 110%* *Limits: 87-138*	*11/10/17 20:21*	*B7K0413*	*FP1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-5
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:25
Matrix: Groundwater
Lab ID: 17K0134-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/ECD								
Method: E504.1								
1,2-Dibromo-3-chloropropane	< 0.175	0.175		ug/L		12/06/17 16:26	B7L0581	LP
Ethylene Dibromide	< 0.175	0.175		ug/L		12/06/17 16:26	B7L0581	LP
Semivolatile Organic Compounds by GC/FID								
Method: E552.3								
Dalapon	< 1.60	1.60		ug/L		12/05/17 22:56	B7L0344	LP
Surrogate: 2,4-Dichlorophenylacetic acid				*Recovery: 72%*	*Limits: 70-130*	*12/05/17 22:56*	*B7L0344*	*LP*
Semivolatile Organic Compounds by GC/MS								
Method: SW8270D / SW3510								
1,2,4-Trichlorobenzene	< 4.26	4.26		ug/L		11/17/17 21:07	B7K0590	BW1
o-Dichlorobenzene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
p-Dichlorobenzene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
2-Methylnaphthalene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
2-Methylphenol	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Acenaphthene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Anthracene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Benzo(a)anthracene	< 4.26	4.26		ug/L		11/17/17 21:07	B7K0590	BW1
Benzo(a)pyrene	< 4.26	4.26		ug/L		11/17/17 21:07	B7K0590	BW1
Benzo(b)fluoranthene	< 10.7	10.7		ug/L		11/17/17 21:07	B7K0590	BW1
Benzo(k)fluoranthene	< 10.7	10.7		ug/L		11/17/17 21:07	B7K0590	BW1
Benzoic acid	< 53.3	53.3		ug/L		11/17/17 21:07	B7K0590	BW1
Di(2-ethylhexyl)phthalate	< 26.6	26.6		ug/L		11/17/17 21:07	B7K0590	BW1
Chrysene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Dibenzo(a,h)anthracene	< 10.7	10.7		ug/L		11/17/17 21:07	B7K0590	BW1
Diethyl phthalate	< 4.26	4.26		ug/L		11/17/17 21:07	B7K0590	BW1
Di-n-butyl phthalate	< 10.7	10.7		ug/L		11/17/17 21:07	B7K0590	BW1
Fluoranthene	< 4.26	4.26		ug/L		11/17/17 21:07	B7K0590	BW1
Fluorene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Hexachlorocyclopentadiene	< 10.7	10.7		ug/L		11/17/17 21:07	B7K0590	BW1
Indeno(1,2,3-cd)pyrene	< 26.6	26.6		ug/L		11/17/17 21:07	B7K0590	BW1
Naphthalene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Pentachlorophenol	< 53.3	53.3		ug/L		11/17/17 21:07	B7K0590	BW1
Pyrene	< 2.13	2.13		ug/L		11/17/17 21:07	B7K0590	BW1
Surrogate: 2-Fluorophenol				*Recovery: 21%*	*Limits: 4-108*	*11/17/17 21:07*	*B7K0590*	*BW1*
Surrogate: Phenol-d5				*Recovery: 14%*	*Limits: 1-101*	*11/17/17 21:07*	*B7K0590*	*BW1*
Surrogate: Nitrobenzene-d5				*Recovery: 37%*	*Limits: 23-119*	*11/17/17 21:07*	*B7K0590*	*BW1*
Surrogate: 2-Fluorobiphenyl				*Recovery: 40%*	*Limits: 28-124*	*11/17/17 21:07*	*B7K0590*	*BW1*
Surrogate: 2,4,6-Tribromophenol				*Recovery: 20%*	*Limits: 11-102*	*11/17/17 21:07*	*B7K0590*	*BW1*
Surrogate: 4-Terphenyl-d14				*Recovery: 93%*	*Limits: 79-147*	*11/17/17 21:07*	*B7K0590*	*BW1*

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: AP-5
Report Date: 01/09/2018
Collection Date: 11/09/2017 11:25
Matrix: Groundwater
Lab ID: 17K0134-06 (Continued)

Analyses	Result	EMT Reporting Limit	Qual	Units	Date/Time Analyzed	Batch	Analyst
Eurofins-Eaton (Underwriters), Subcontract							
Semivolatile Organic Compounds by GC/MS							
Method: E548.1							
Endothall	< 9.0	9		ug/L	11/06/17 00:00	17K0134-06	UL
Subcontracted Analyses							
Method: SM7500							
Radium-226	**1.3**	0.1		pCi/L	11/28/17 00:00	17K0134-06	UL
Radium-228	**1.9**	0.48		pCi/L	11/28/17 00:00	17K0134-06	UL
Test America, Denver, CO, Subcontract							
Subcontracted Analyses							
Method: SW6860							
Perchlorate	**0.31 J**	4		µg/L	11/14/17 00:00	17K0134-06	TEST

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Client Sample Results

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Client Sample ID: Trip Blank 1
Report Date: 01/09/2018
Collection Date: 11/09/2017 00:00
Matrix: Groundwater
Lab ID: 17K0134-07

Analyses	Result	EMT Reporting Limit	Qual	Units		Date/Time Analyzed	Batch	Analyst
Volatile Organic Compounds by GC/MS								
Method: SW8260B / SW5030								
1,1,1-Trichloroethane	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
1,1,2-Trichloroethane	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
1,1-Dichloroethane	< 6.00	6.00		ug/L		11/10/17 14:31	B7K0413	FP1
1,1-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
1,2-Dichloroethane	< 8.00	8.00		ug/L		11/10/17 14:31	B7K0413	FP1
1,2-Dichloropropane	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
p-Dioxane	< 200	200		ug/L		11/10/17 14:31	B7K0413	FP1
Methyl ethyl ketone	< 40.0	40.0		ug/L		11/10/17 14:31	B7K0413	FP1
Acetone	< 40.0	40.0		ug/L		11/10/17 14:31	B7K0413	FP1
Benzene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Carbon tetrachloride	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Chlorobenzene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Chloroform	< 8.00	8.00		ug/L		11/10/17 14:31	B7K0413	FP1
cis-1,2-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Dichlorodifluoromethane	< 8.00	8.00		ug/L		11/10/17 14:31	B7K0413	FP1
Ethylbenzene	< 10.0	10.0		ug/L		11/10/17 14:31	B7K0413	FP1
Isopropylbenzene	< 2.00	2.00		ug/L		11/10/17 14:31	B7K0413	FP1
Methyl tert-butyl ether	< 8.00	8.00		ug/L		11/10/17 14:31	B7K0413	FP1
Dichloromethane	< 8.00	8.00		ug/L		11/10/17 14:31	B7K0413	FP1
Styrene	< 30.0	30.0		ug/L		11/10/17 14:31	B7K0413	FP1
Tetrachloroethene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Toluene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
trans-1,2-Dichloroethene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Trichloroethene	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Trichlorofluoromethane	< 8.00	8.00		ug/L		11/10/17 14:31	B7K0413	FP1
Vinyl chloride	< 4.00	4.00		ug/L		11/10/17 14:31	B7K0413	FP1
Xylenes, Total	< 10.0	10.0		ug/L		11/10/17 14:31	B7K0413	FP1
Surrogate: Dibromofluoromethane				*Recovery: 103%*	*Limits: 84-137*	*11/10/17 14:31*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichloroethane-d4				*Recovery: 99%*	*Limits: 87-127*	*11/10/17 14:31*	*B7K0413*	*FP1*
Surrogate: Fluorobenzene				*Recovery: 99%*	*Limits: 80-116*	*11/10/17 14:31*	*B7K0413*	*FP1*
Surrogate: Toluene-d8				*Recovery: 97%*	*Limits: 85-112*	*11/10/17 14:31*	*B7K0413*	*FP1*
Surrogate: 4-Bromofluorobenzene				*Recovery: 97%*	*Limits: 82-125*	*11/10/17 14:31*	*B7K0413*	*FP1*
Surrogate: 1,2-Dichlorobenzene-d4				*Recovery: 109%*	*Limits: 87-138*	*11/10/17 14:31*	*B7K0413*	*FP1*

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Dates Report

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-01	AW-3	11/09/17	Groundwater	Radiation Testing, Subcontracted		11/16/17 00:00	11/28/17 00:00	17K0134-01	
				Perchlorate by IC-MS-MS		11/14/17 00:00	11/14/17 00:00		
				EPA 548.1 Endothall		11/16/17 00:00	11/06/17 00:00		
				Chloride, Anions by Ion Chromatography		11/10/17 08:54	11/10/17 23:42	B7K0328	S7K0213
				Sulfate (SO4), Anions by Ion Chromatography		11/10/17 08:54	11/10/17 23:42		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/10/17 08:54	11/10/17 23:42		
				Fluoride, Anions by Ion Chromatography		11/10/17 08:54	11/10/17 23:42		
				Cyanide, Total		11/13/17 08:00	11/13/17 11:16	B7K0384	S7K0217
				Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 17:42	B7K0413	S7K0225
				Mercury, Total CCVA		11/14/17 09:30	11/14/17 12:08	B7K0442	S7K0243
				Thallium, Total ICP-MS		11/14/17 09:51	11/21/17 11:01	B7K0447	S7K0371
				Selenium, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Antimony, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Lead, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Nickel, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Manganese, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Iron, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Zinc, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Chromium, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Cadmium, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Beryllium, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Barium, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Boron, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Arsenic, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Silver, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Copper, Total ICP-MS		11/14/17 09:51	11/21/17 11:01		
				Solids, Total Dissolved (TDS)		11/14/17 14:32	11/14/17 14:32	B7K0473	
				Phenol, Total		11/15/17 08:00	11/15/17 12:12	B7K0481	S7K0254
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 17:34	B7K0487	S7L0269
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 20:40		
				Polychlorinated Biphenyls by GC/ECD		11/15/17 09:27	11/15/17 20:12	B7K0489	S7K0288
				Herbicides by HPLC		11/15/17 11:58	11/16/17 00:06	B7K0503	S7K0282
				Semivolatile Organic Compounds by GC/MS		11/16/17 11:00	11/17/17 18:21	B7K0590	S7K0322
				EPA 531.1 Carbamates		11/21/17 06:18	11/21/17 09:15	B7K0742	S7K0369
				Molybdenum, Total ICP-MS		11/22/17 10:55	11/28/17 15:50	B7K0798	S7K0443
				Cobalt, Total ICP-MS		11/22/17 10:55	11/28/17 15:50		
				Lithium, Total ICP-AES		11/29/17 10:56	11/29/17 21:12	B7K0971	S7K0467
				Temperature in F, Field		11/09/17 10:00	11/09/17 10:00	B7K0999	
				Conductance, Field		11/09/17 10:00	11/09/17 10:00		
				pH, Tested On Site		11/09/17 10:00	11/09/17 10:00		

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-01	AW-3	11/09/17	Groundwater	EPA 552.1 Dalapon		12/04/17 04:00	12/06/17 11:12	B7L0344	S7L0256
				EPA 504.1 DBCP/EDB		12/06/17 08:00	12/06/17 13:49	B7L0581	S7L0260
				Calcium, Total ICP-MS		01/08/18 10:25	01/08/18 13:54	B8A0185	S8A0084
17K0134-02	AP-1	11/09/17		EPA 548.1 Endothall		11/16/17 00:00	11/06/17 00:00	17K0134-02	
				Radiation Testing, Subcontracted		11/16/17 00:00	11/28/17 00:00		
				Perchlorate by IC-MS-MS		11/14/17 00:00	11/14/17 00:00		
				Fluoride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 01:37	B7K0328	S7K0213
				Chloride, Anions by Ion Chromatography		11/10/17 08:54	11/13/17 20:58		S7K0235
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/10/17 08:54	11/11/17 01:37		S7K0213
				Cyanide, Total		11/13/17 08:00	11/13/17 11:16	B7K0384	S7K0217
				Sulfate (SO4), Anions by Ion Chromatography		11/13/17 10:24	11/13/17 20:58	B7K0393	S7K0235
				Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 18:14	B7K0413	S7K0225
				Mercury, Total CCVA		11/14/17 09:30	11/14/17 12:10	B7K0442	S7K0243
				Chromium, Total ICP-MS		11/14/17 09:51	11/21/17 11:03	B7K0447	S7K0371
				Zinc, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Thallium, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Selenium, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Antimony, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Lead, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Nickel, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Manganese, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Silver, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Copper, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Cadmium, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Beryllium, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Barium, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Boron, Total ICP-MS		11/14/17 09:51	11/21/17 11:54		
				Arsenic, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Iron, Total ICP-MS		11/14/17 09:51	11/21/17 11:03		
				Solids, Total Dissolved (TDS)		11/14/17 14:32	11/14/17 14:32	B7K0473	
				Phenol, Total		11/15/17 08:00	11/15/17 12:12	B7K0481	S7K0254
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 21:27	B7K0487	S7L0269
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 18:21		
				Polychlorinated Biphenyls by GC/ECD		11/15/17 09:27	11/15/17 20:39	B7K0489	S7K0288
				Herbicides by HPLC		11/15/17 11:58	11/16/17 00:48	B7K0503	S7K0282
				Semivolatile Organic Compounds by GC/MS		11/16/17 11:00	11/17/17 18:54	B7K0590	S7K0322
				EPA 531.1 Carbamates		11/21/17 06:18	11/21/17 09:51	B7K0742	S7K0369
				Molybdenum, Total ICP-MS		11/22/17 10:55	11/28/17 15:52	B7K0798	S7K0443
				Cobalt, Total ICP-MS		11/22/17 10:55	11/28/17 15:52		
				Vanadium, Total ICP-MS		11/22/17 10:55	11/28/17 15:52		
				Lithium, Total ICP-AES		11/29/17 10:56	11/29/17 21:16	B7K0971	S7K0467

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-02	AP-1	11/09/17	Groundwater	Temperature in F, Field		11/09/17 11:15	11/09/17 11:15	B7K0999	
				pH, Tested On Site		11/09/17 11:15	11/09/17 11:15		
				Conductance, Field		11/09/17 11:15	11/09/17 11:15		
				EPA 552.1 Dalapon		12/04/17 04:00	12/06/17 13:12	B7L0344	S7L0256
				EPA 504.1 DBCP/EDB		12/06/17 08:00	12/06/17 14:21	B7L0581	S7L0260
				Calcium, Total ICP-MS		01/08/18 10:25	01/08/18 13:56	B8A0185	S8A0084
17K0134-03	AP-2	11/09/17		EPA 548.1 Endothall		11/16/17 00:00	11/06/17 00:00	17K0134-03	
				Perchlorate by IC-MS-MS		11/14/17 00:00	11/14/17 00:00		
				Radiation Testing, Subcontracted		11/16/17 00:00	11/28/17 00:00		
				Chloride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 02:06	B7K0328	S7K0213
				Fluoride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 02:06		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/10/17 08:54	11/11/17 02:06		
				Cyanide, Total		11/13/17 08:00	11/13/17 11:16	B7K0384	S7K0217
				Sulfate (SO4), Anions by Ion Chromatography		11/13/17 10:24	11/13/17 21:26	B7K0393	S7K0235
				Chloride, Anions by Ion Chromatography		11/13/17 10:24	11/13/17 21:26		
				Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 18:46	B7K0413	S7K0225
				Mercury, Total CCVA		11/14/17 09:30	11/14/17 12:11	B7K0442	S7K0243
				Copper, Total ICP-MS		11/14/17 09:51	11/21/17 11:04	B7K0447	S7K0371
				Chromium, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Cadmium, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Beryllium, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Barium, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Thallium, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Boron, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Lead, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Zinc, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Silver, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Iron, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Antimony, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Arsenic, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Selenium, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Nickel, Total ICP-MS		11/14/17 09:51	11/21/17 11:04		
				Manganese, Total ICP-MS		11/14/17 09:51	11/21/17 11:56		
				Solids, Total Dissolved (TDS)		11/14/17 14:32	11/14/17 14:32	B7K0473	
				Phenol, Total		11/15/17 08:00	11/15/17 12:12	B7K0481	S7K0254
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 23:00	B7K0487	S7L0269
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 22:13		
				Polychlorinated Biphenyls by GC/ECD		11/15/17 09:27	11/15/17 21:05	B7K0489	S7K0288
				Herbicides by HPLC		11/15/17 11:58	11/16/17 01:29	B7K0503	S7K0282
				Semivolatile Organic Compounds by GC/MS		11/16/17 11:00	11/17/17 19:27	B7K0590	S7K0322

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-03	AP-2	11/09/17	Groundwater	EPA 531.1 Carbamates		11/21/17 06:18	11/21/17 10:27	B7K0742	S7K0369
				Molybdenum, Total ICP-MS		11/22/17 10:55	11/28/17 15:57	B7K0798	S7K0443
				Vanadium, Total ICP-MS		11/22/17 10:55	11/28/17 15:57		
				Cobalt, Total ICP-MS		11/22/17 10:55	11/28/17 15:57		
				Lithium, Total ICP-AES		11/29/17 10:56	11/29/17 21:20	B7K0971	S7K0467
				Conductance, Field		11/09/17 10:20	11/09/17 10:20	B7K0999	
				pH, Tested On Site		11/09/17 10:20	11/09/17 10:20		
				Temperature in F, Field		11/09/17 10:20	11/09/17 10:20		
				EPA 552.1 Dalapon		12/04/17 04:00	12/06/17 14:30	B7L0344	S7L0256
				EPA 504.1 DBCP/EDB		12/06/17 08:00	12/06/17 14:52	B7L0581	S7L0260
				Calcium, Total ICP-MS		01/08/18 10:25	01/08/18 13:57	B8A0185	S8A0084
17K0134-04	AP-3	11/09/17		Radiation Testing, Subcontracted		11/16/17 00:00	11/28/17 00:00	17K0134-04	
				EPA 548.1 Endothall		11/16/17 00:00	11/06/17 00:00		
				Perchlorate by IC-MS-MS		11/14/17 00:00	11/14/17 00:00		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/10/17 08:54	11/11/17 02:35	B7K0328	S7K0213
				Fluoride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 02:35		
				Chloride, Anions by Ion Chromatography		11/10/17 08:54	11/13/17 22:52		S7K0235
				Cyanide, Total		11/13/17 08:00	11/13/17 11:16	B7K0384	S7K0217
				Sulfate (SO4), Anions by Ion Chromatography		11/13/17 10:24	11/13/17 22:52	B7K0393	S7K0235
				Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 19:18	B7K0413	S7K0225
				Mercury, Total CCVA		11/14/17 09:30	11/14/17 12:13	B7K0442	S7K0243
				Iron, Total ICP-MS		11/14/17 09:51	11/21/17 11:06	B7K0447	S7K0371
				Zinc, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Thallium, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Selenium, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Antimony, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Lead, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Cadmium, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Manganese, Total ICP-MS		11/14/17 09:51	11/21/17 12:03		
				Silver, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Copper, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Chromium, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Beryllium, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Barium, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Boron, Total ICP-MS		11/14/17 09:51	11/21/17 12:03		
				Arsenic, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Nickel, Total ICP-MS		11/14/17 09:51	11/21/17 11:06		
				Solids, Total Dissolved (TDS)		11/14/17 14:32	11/14/17 14:32	B7K0473	
				Phenol, Total		11/15/17 08:00	11/15/17 12:12	B7K0481	S7K0254
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 23:47	B7K0487	S7L0269
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 23:00		

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Dates Report

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Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-04	AP-3	11/09/17	Groundwater	Polychlorinated Biphenyls by GC/ECD		11/15/17 09:27	11/15/17 21:32	B7K0489	S7K0288
				Herbicides by HPLC		11/15/17 11:58	11/16/17 02:11	B7K0503	S7K0282
				Semivolatile Organic Compounds by GC/MS		11/16/17 11:00	11/17/17 20:01	B7K0590	S7K0322
				EPA 531.1 Carbamates		11/21/17 06:18	11/21/17 11:14	B7K0742	S7K0369
				Cobalt, Total ICP-MS		11/22/17 10:55	11/28/17 15:59	B7K0798	S7K0443
				Molybdenum, Total ICP-MS		11/22/17 10:55	11/28/17 15:59		
				Vanadium, Total ICP-MS		11/22/17 10:55	11/28/17 15:59		
				Lithium, Total ICP-AES		11/29/17 10:56	11/29/17 21:24	B7K0971	S7K0467
				Conductance, Field		11/09/17 09:30	11/09/17 09:30	B7K0999	
				pH, Tested On Site		11/09/17 09:30	11/09/17 09:30		
				Temperature in F, Field		11/09/17 09:30	11/09/17 09:30		
				EPA 552.1 Dalapon		12/04/17 04:00	12/06/17 15:07	B7L0344	S7L0256
				EPA 504.1 DBCP/EDB		12/06/17 08:00	12/06/17 15:23	B7L0581	S7L0260
				Calcium, Total ICP-MS		01/08/18 10:25	01/08/18 13:59	B8A0185	S8A0084
17K0134-05	AP-4	11/09/17		EPA 548.1 Endothall		11/16/17 00:00	11/06/17 00:00	17K0134-05	
				Perchlorate by IC-MS-MS		11/14/17 00:00	11/14/17 00:00		
				Radiation Testing, Subcontracted		11/16/17 00:00	11/28/17 00:00		
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/10/17 08:54	11/11/17 03:04	B7K0328	S7K0213
				Fluoride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 03:04		
				Chloride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 03:04		
				Sulfate (SO4), Anions by Ion Chromatography		11/10/17 08:54	11/11/17 03:04		
				Cyanide, Total		11/13/17 08:00	11/13/17 11:16	B7K0384	S7K0217
				Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 19:50	B7K0413	S7K0225
				Mercury, Total CCVA		11/14/17 09:30	11/14/17 12:46	B7K0442	S7K0243
				Zinc, Total ICP-MS		11/14/17 09:51	11/21/17 11:08	B7K0447	S7K0371
				Iron, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Manganese, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Nickel, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Lead, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Antimony, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Thallium, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Chromium, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Selenium, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Copper, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Cadmium, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Beryllium, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Barium, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Boron, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Arsenic, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Silver, Total ICP-MS		11/14/17 09:51	11/21/17 11:08		
				Solids, Total Dissolved (TDS)		11/14/17 14:32	11/14/17 14:32	B7K0473	

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-05	AP-4	11/09/17	Groundwater	Phenol, Total		11/15/17 08:00	11/15/17 12:12	B7K0481	S7K0254
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/23/17 00:33	B7K0487	S7L0269
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 23:47		
				Polychlorinated Biphenyls by GC/ECD		11/15/17 09:27	11/15/17 21:59	B7K0489	S7K0288
				Herbicides by HPLC		11/15/17 11:58	11/16/17 02:52	B7K0503	S7K0282
				Semivolatile Organic Compounds by GC/MS		11/16/17 11:00	11/17/17 20:34	B7K0590	S7K0322
				EPA 531.1 Carbamates		11/21/17 06:18	11/21/17 11:50	B7K0742	S7K0369
				Molybdenum, Total ICP-MS		11/22/17 10:55	11/28/17 16:01	B7K0798	S7K0443
				Cobalt, Total ICP-MS		11/22/17 10:55	11/28/17 16:01		
				Vanadium, Total ICP-MS		11/22/17 10:55	11/28/17 16:01		
				Lithium, Total ICP-AES		11/29/17 10:56	11/29/17 21:32	B7K0971	S7K0467
				pH, Tested On Site		11/09/17 12:35	11/09/17 12:35	B7K0999	
				Conductance, Field		11/09/17 12:35	11/09/17 12:35		
				Temperature in F, Field		11/09/17 12:35	11/09/17 12:35		
				EPA 552.1 Dalapon		12/04/17 04:00	12/06/17 15:44	B7L0344	S7L0256
				EPA 504.1 DBCP/EDB		12/06/17 08:00	12/06/17 15:55	B7L0581	S7L0260
				Calcium, Total ICP-MS		01/08/18 10:25	01/08/18 14:01	B8A0185	S8A0084
17K0134-06	AP-5	11/09/17		EPA 548.1 Endothall		11/16/17 00:00	11/06/17 00:00	17K0134-06	
				Radiation Testing, Subcontracted		11/16/17 00:00	11/28/17 00:00		
				Perchlorate by IC-MS-MS		11/14/17 00:00	11/14/17 00:00		
				Fluoride, Anions by Ion Chromatography		11/10/17 08:54	11/11/17 03:32	B7K0328	S7K0213
				Chloride, Anions by Ion Chromatography		11/10/17 08:54	11/14/17 00:47		S7K0235
				Nitrogen, Nitrate (NO3) as N, Anions by IC		11/10/17 08:54	11/11/17 03:32		S7K0213
				Cyanide, Total		11/13/17 08:00	11/13/17 11:16	B7K0384	S7K0217
				Sulfate (SO4), Anions by Ion Chromatography		11/13/17 10:24	11/14/17 00:47	B7K0393	S7K0235
				Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 20:21	B7K0413	S7K0225
				Mercury, Total CCVA		11/14/17 09:30	11/14/17 12:49	B7K0442	S7K0243
				Iron, Total ICP-MS		11/14/17 09:51	11/21/17 12:06	B7K0447	S7K0371
				Cadmium, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Zinc, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Thallium, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Selenium, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Antimony, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Lead, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Nickel, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Manganese, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Chromium, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Beryllium, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Barium, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Boron, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Arsenic, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		

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Dates Report

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
17K0134-06	AP-5	11/09/17	Groundwater	Silver, Total ICP-MS		11/14/17 09:51	11/21/17 11:10	B7K0447	S7K0371
				Copper, Total ICP-MS		11/14/17 09:51	11/21/17 11:10		
				Solids, Total Dissolved (TDS)		11/14/17 14:32	11/14/17 14:32	B7K0473	
				Phenol, Total		11/15/17 08:00	11/15/17 12:12	B7K0481	S7K0254
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/22/17 22:13	B7K0487	S7L0269
				Organochlorine Pesticides by GC/ECD		11/15/17 09:27	11/23/17 00:33		
				Polychlorinated Biphenyls by GC/ECD		11/15/17 09:27	11/15/17 22:25	B7K0489	S7K0288
				Herbicides by HPLC		11/15/17 11:58	11/16/17 03:33	B7K0503	S7K0282
				Semivolatile Organic Compounds by GC/MS		11/16/17 11:00	11/17/17 21:07	B7K0590	S7K0322
				EPA 531.1 Carbamates		11/21/17 06:18	11/21/17 12:28	B7K0742	S7K0369
				Vanadium, Total ICP-MS		11/22/17 10:55	11/28/17 16:02	B7K0798	S7K0443
				Cobalt, Total ICP-MS		11/22/17 10:55	11/28/17 16:02		
				Molybdenum, Total ICP-MS		11/22/17 10:55	11/28/17 16:02		
				Lithium, Total ICP-AES		11/29/17 10:56	11/29/17 21:28	B7K0971	S7K0467
				pH, Tested On Site		11/09/17 11:25	11/09/17 11:25	B7K0999	
				Temperature in F, Field		11/09/17 11:25	11/09/17 11:25		
				Conductance, Field		11/09/17 11:25	11/09/17 11:25		
				EPA 552.1 Dalapon		12/04/17 04:00	12/05/17 22:56	B7L0344	S7L0255
				EPA 504.1 DBCP/EDB		12/06/17 08:00	12/06/17 16:26	B7L0581	S7L0260
				Calcium, Total ICP-MS		01/08/18 10:25	01/08/18 14:11	B8A0185	S8A0084
17K0134-07	Trip Blank 1	11/09/17		Volatile Organic Compounds by GC/MS		11/10/17 11:00	11/10/17 14:31	B7K0413	S7K0225

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Quality Control

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Metals by ICP-AES

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0971 - SW3015										
Blank (B7K0971-BLK1)				*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 20:59*			
Lithium	< 0.0500	0.0500	mg/L							
LCS (B7K0971-BS1)				*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 21:03*			
Lithium	1.25	0.0500	mg/L	1.250		100	80-120			
Serial Dilution (B7K0971-DUP1)		**Source: 17K0134-05**		*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 22:05*			
Lithium	< 0.0840	0.250	mg/L		ND				10	
MRL Check (B7K0971-MRL1)				*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 21:07*			
Lithium	0.0664	0.0500	mg/L	0.06250		106	0-200			
Matrix Spike (B7K0971-MS1)		**Source: 17K0134-05**		*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 21:53*			
Lithium	1.28	0.0500	mg/L	1.250	ND	102	75-125			
Matrix Spike Dup (B7K0971-MSD1)		**Source: 17K0134-05**		*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 21:57*			
Lithium	1.25	0.0500	mg/L	1.250	ND	99.8	75-125	2.61	20	
Post Spike (B7K0971-PS1)		**Source: 17K0134-05**		*Prepared: 11/29/2017 10:56*			*Analyzed: 11/29/2017 22:01*			
Lithium	0.766	0.0556	mg/L	0.6944	ND	110	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0447 - SW3015										
Blank (B7K0447-BLK1)				*Prepared: 11/14/2017 09:51*			*Analyzed: 11/21/2017 10:54*			
Antimony	< 25.0	25.0	ug/L							
Arsenic	< 25.0	25.0	ug/L							
Barium	< 25.0	25.0	ug/L							
Beryllium	< 2.50	2.50	ug/L							
Boron	< 12.5	12.5	ug/L							
Cadmium	< 2.50	2.50	ug/L							
Chromium	< 25.0	25.0	ug/L							
Copper	< 25.0	25.0	ug/L							
Iron	< 125	125	ug/L							
Lead	< 25.0	25.0	ug/L							
Manganese	< 25.0	25.0	ug/L							
Nickel	< 25.0	25.0	ug/L							
Selenium	< 25.0	25.0	ug/L							
Silver	< 2.50	2.50	ug/L							
Thallium	< 25.0	25.0	ug/L							
Zinc	< 25.0	25.0	ug/L							
LCS (B7K0447-BS1)				*Prepared: 11/14/2017 09:51*			*Analyzed: 11/21/2017 10:56*			
Antimony	1160	25.0	ug/L	1250		92.8	85-117			
Arsenic	1140	25.0	ug/L	1250		91.1	84-116			
Barium	1230	25.0	ug/L	1250		98.5	87.5-114			
Beryllium	128	2.50	ug/L	125.0		103	83-121			
Boron	613	12.5	ug/L	625.0		98.1	73-130			
Cadmium	112	2.50	ug/L	125.0		89.6	85-115			
Chromium	1150	25.0	ug/L	1250		91.8	85.8-113			
Copper	1180	25.0	ug/L	1250		94.1	86.2-113			
Iron	2430	125	ug/L	2500		97.3	87-113			
Lead	1200	25.0	ug/L	1250		95.7	88.7-114			
Manganese	1220	25.0	ug/L	1250		97.9	87-115			
Nickel	1140	25.0	ug/L	1250		91.6	85-114			
Selenium	1190	25.0	ug/L	1250		95.4	80-120			
Silver	123	2.50	ug/L	125.0		98.6	88.9-114			
Thallium	1240	25.0	ug/L	1250		99.6	82-116			
Zinc	1140	25.0	ug/L	1250		90.9	85-108			
Serial Dilution (B7K0447-DUP1)		**Source: 17K0132-08**		*Prepared: 11/14/2017 09:51*			*Analyzed: 11/21/2017 11:41*			
Antimony	< 10.0	125	ug/L		ND				10	
Arsenic	< 15.0	125	ug/L		ND				10	
Barium	284	125	ug/L		ND				10	
Beryllium	< 1.50	12.5	ug/L		ND				10	
Boron	1130	62.5	ug/L		1010			11.2	10	P
Cadmium	< 2.00	12.5	ug/L		ND				10	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0447 - SW3015 *(Continued)*										
Serial Dilution (B7K0447-DUP1) (Continued)		**Source: 17K0132-08**		*Prepared: 11/14/2017 09:51*		*Analyzed: 11/21/2017 11:41*				
Chromium	< 2.50	125	ug/L		ND				10	
Copper	< 20.0	125	ug/L		ND				10	
Iron	1490	625	ug/L		ND				10	
Lead	< 2.00	125	ug/L		ND				10	
Manganese	132	125	ug/L		ND				10	
Nickel	< 25.0	125	ug/L		ND				10	
Selenium	< 5.00	125	ug/L		ND				10	
Silver	< 2.00	12.5	ug/L		ND				10	
Thallium	< 2.00	125	ug/L		ND				10	
Zinc	< 25.0	125	ug/L		ND				10	
MRL Check (B7K0447-MRL1)				*Prepared: 11/14/2017 09:51*		*Analyzed: 11/21/2017 10:57*				
Antimony	34.3	25.0	ug/L	31.25		110	70-130			
Arsenic	30.8	25.0	ug/L	31.25		98.7	70-130			
Barium	34.5	25.0	ug/L	31.25		110	70-130			
Beryllium	3.47	2.50	ug/L	3.125		111	70-130			
Boron	19.3	12.5	ug/L	15.62		123	70-130			
Cadmium	3.29	2.50	ug/L	3.125		105	70-130			
Chromium	33.7	25.0	ug/L	31.25		108	70-130			
Copper	35.0	25.0	ug/L	31.25		112	70-130			
Iron	77.3	125	ug/L	62.50		124	70-130			
Lead	33.7	25.0	ug/L	31.25		108	70-130			
Manganese	33.7	25.0	ug/L	31.25		108	70-130			
Nickel	32.3	25.0	ug/L	31.25		103	70-130			
Selenium	31.1	25.0	ug/L	31.25		99.4	70-130			
Silver	3.61	2.50	ug/L	3.125		115	70-130			
Thallium	35.1	25.0	ug/L	31.25		112	70-130			
Zinc	32.3	25.0	ug/L	31.25		103	70-130			
Matrix Spike (B7K0447-MS1)		**Source: 17K0132-08**		*Prepared: 11/14/2017 09:51*		*Analyzed: 11/21/2017 11:31*				
Antimony	1230	25.0	ug/L	1250	ND	98.5	75-125			
Arsenic	1210	25.0	ug/L	1250	ND	96.8	75-125			
Barium	1530	25.0	ug/L	1250	ND	122	75-125			
Beryllium	133	2.50	ug/L	125.0	ND	107	75-125			
Boron	1680	12.5	ug/L	625.0	1010	106	75-125			
Cadmium	115	2.50	ug/L	125.0	ND	92.0	75-125			
Chromium	1170	25.0	ug/L	1250	ND	93.8	75-125			
Copper	1180	25.0	ug/L	1250	ND	94.1	75-125			
Iron	3650	125	ug/L	2500	ND	146	75-125			S
Lead	1190	25.0	ug/L	1250	ND	95.3	75-125			
Manganese	1340	25.0	ug/L	1250	ND	107	75-125			
Nickel	1130	25.0	ug/L	1250	ND	90.5	75-125			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0447 - SW3015 *(Continued)*										
Matrix Spike (B7K0447-MS1) (Continued)		**Source: 17K0132-08**		*Prepared: 11/14/2017 09:51*		*Analyzed: 11/21/2017 11:31*				
Selenium	1220	25.0	ug/L	1250	ND	97.7	75-125			
Silver	57.9	2.50	ug/L	125.0	ND	46.3	75-125			S
Thallium	1300	25.0	ug/L	1250	ND	104	75-125			
Zinc	1170	25.0	ug/L	1250	ND	93.7	75-125			
Matrix Spike Dup (B7K0447-MSD1)		**Source: 17K0132-08**		*Prepared: 11/14/2017 09:51*		*Analyzed: 11/21/2017 11:32*				
Antimony	1230	25.0	ug/L	1250	ND	98.5	75-125	0.0634	20	
Arsenic	1170	25.0	ug/L	1250	ND	93.9	75-125	3.01	20	
Barium	1540	25.0	ug/L	1250	ND	123	75-125	1.07	20	
Beryllium	133	2.50	ug/L	125.0	ND	106	75-125	0.440	20	
Boron	1650	12.5	ug/L	625.0	1010	101	75-125	1.86	20	
Cadmium	118	2.50	ug/L	125.0	ND	94.4	75-125	2.48	20	
Chromium	1150	25.0	ug/L	1250	ND	92.1	75-125	1.84	20	
Copper	1140	25.0	ug/L	1250	ND	91.5	75-125	2.79	20	
Iron	3660	125	ug/L	2500	ND	147	75-125	0.319	20	S
Lead	1180	25.0	ug/L	1250	ND	94.3	75-125	1.07	20	
Manganese	1310	25.0	ug/L	1250	ND	105	75-125	2.14	20	
Nickel	1110	25.0	ug/L	1250	ND	89.2	75-125	1.43	20	
Selenium	1190	25.0	ug/L	1250	ND	95.2	75-125	2.56	20	
Silver	53.1	2.50	ug/L	125.0	ND	42.5	75-125	8.55	20	S
Thallium	1290	25.0	ug/L	1250	ND	103	75-125	0.270	20	
Zinc	1140	25.0	ug/L	1250	ND	90.9	75-125	3.00	20	
Post Spike (B7K0447-PS1)		**Source: 17K0132-08**		*Prepared: 11/14/2017 09:51*		*Analyzed: 11/21/2017 11:40*				
Antimony	313	25.0	ug/L	312.5	ND	100	80-120			
Arsenic	298	25.0	ug/L	312.5	ND	95.2	80-120			
Barium	601	25.0	ug/L	312.5	ND	192	80-120			S
Beryllium	142	2.50	ug/L	156.2	ND	90.8	80-120			
Boron	1350	12.5	ug/L	312.5	1010	108	80-120			
Cadmium	276	2.50	ug/L	312.5	ND	88.2	80-120			
Chromium	291	25.0	ug/L	312.5	ND	93.0	80-120			
Copper	293	25.0	ug/L	312.5	ND	93.7	80-120			
Iron	2790	125	ug/L	1562	ND	178	80-120			S
Lead	289	25.0	ug/L	312.5	ND	92.5	80-120			
Manganese	419	25.0	ug/L	312.5	ND	134	80-120			S
Nickel	271	25.0	ug/L	312.5	ND	86.8	80-120			
Selenium	290	25.0	ug/L	312.5	ND	92.9	80-120			
Silver	291	2.50	ug/L	312.5	ND	93.0	80-120			
Thallium	308	25.0	ug/L	312.5	ND	98.6	80-120			
Zinc	288	25.0	ug/L	312.5	ND	92.1	80-120			
Batch: B7K0798 - SW3015										
Blank (B7K0798-BLK1)				*Prepared: 11/22/2017 10:55*		*Analyzed: 11/28/2017 15:41*				
Cobalt	< 25.0	25.0	ug/L							

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0798 - SW3015 *(Continued)*										
Blank (B7K0798-BLK1) (Continued)				*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 15:41*			
Molybdenum	< 0.0250	0.0250	mg/L							
Vanadium	< 25.0	25.0	ug/L							
LCS (B7K0798-BS1)				*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 15:43*			
Cobalt	1280	25.0	ug/L	1250		103	86-115			
Molybdenum	1.36	0.0250	mg/L	1.250		109	83-115			
Vanadium	1300	25.0	ug/L	1250		104	86-115			
Serial Dilution (B7K0798-DUP1)		**Source: 17K0369-01**		*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 16:20*			
Cobalt	< 5.00	125	ug/L		ND				10	
Molybdenum	< 0.00500	0.125	mg/L		ND				10	
Vanadium	1.47	125	ug/L		ND				10	
MRL Check (B7K0798-MRL1)				*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 15:45*			
Cobalt	24.5	25.0	ug/L	25.00		97.9	70-130			
Molybdenum	0.0264	0.0250	mg/L	0.02500		106	70-130			
Vanadium	24.4	25.0	ug/L	25.00		97.6	70-130			
Matrix Spike (B7K0798-MS1)		**Source: 17K0369-01**		*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 16:08*			
Cobalt	1290	25.0	ug/L	1250	ND	103	75-125			
Molybdenum	1.46	0.0250	mg/L	1.250	0.00296	117	75-125			
Vanadium	1350	25.0	ug/L	1250	ND	108	75-125			
Matrix Spike Dup (B7K0798-MSD1)		**Source: 17K0369-01**		*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 16:09*			
Cobalt	1250	25.0	ug/L	1250	ND	100	75-125	2.60	20	
Molybdenum	1.40	0.0250	mg/L	1.250	0.00296	111	75-125	4.76	20	
Vanadium	1300	25.0	ug/L	1250	ND	104	75-125	4.07	20	
Post Spike (B7K0798-PS1)		**Source: 17K0369-01**		*Prepared: 11/22/2017 10:55*			*Analyzed: 11/28/2017 16:13*			
Cobalt	290	25.0	ug/L	312.5	ND	92.9	80-120			
Molybdenum	0.304	0.0250	mg/L	0.3125	0.00296	96.3	80-120			
Vanadium	293	25.0	ug/L	312.5	ND	93.7	80-120			
Batch: B8A0185 - SW3015										
Blank (B8A0185-BLK1)				*Prepared: 01/08/2018 10:25*			*Analyzed: 01/08/2018 13:49*			
Calcium	< 0.125	0.125	mg/L							

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Metals by ICP-MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B8A0185 - SW3015 *(Continued)*										
LCS (B8A0185-BS1)				*Prepared: 01/08/2018 10:25*			*Analyzed: 01/08/2018 13:50*			
Calcium	6.21	0.125	mg/L	6.250		99.4	87-118			
MRL Check (B8A0185-MRL1)				*Prepared: 01/08/2018 10:25*			*Analyzed: 01/08/2018 13:52*			
Calcium	0.181	0.125	mg/L	0.1250		145	70-130			S
Matrix Spike (B8A0185-MS1)		**Source: 17K0134-05RE2**		*Prepared: 01/08/2018 10:25*			*Analyzed: 01/08/2018 14:02*			
Calcium	130	1.25	mg/L	6.250	141	NR	75-125			S
Matrix Spike Dup (B8A0185-MSD1)		**Source: 17K0134-05RE2**		*Prepared: 01/08/2018 10:25*			*Analyzed: 01/08/2018 14:04*			
Calcium	126	1.25	mg/L	6.250	141	NR	75-125	2.93	20	S
Post Spike (B8A0185-PS1)		**Source: 17K0134-05RE2**		*Prepared: 01/08/2018 10:25*			*Analyzed: 01/08/2018 14:13*			
Calcium	150	2.50	mg/L	31.25	141	27.5	80-120			S

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Mercury by CVAA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0442										
LCS (B7K0442-BS1)				*Prepared: 11/14/2017 09:30*			*Analyzed: 11/14/2017 11:23*			
Mercury	4.66	0.50	ug/L	5.000		93.1	82-119			
MRL Check (B7K0442-MRL1)				*Prepared: 11/14/2017 09:30*			*Analyzed: 11/14/2017 11:03*			
Mercury	0.26	0.50	ug/L	0.2500		106	70-130			
Matrix Spike (B7K0442-MS1)		**Source: 17K0132-12**		*Prepared: 11/14/2017 09:30*			*Analyzed: 11/14/2017 12:04*			
Mercury	1.76	0.50	ug/L	2.000	0.13	81.5	75-125			
Matrix Spike (B7K0442-MS2)		**Source: 17K0134-04**		*Prepared: 11/14/2017 09:30*			*Analyzed: 11/14/2017 12:43*			
Mercury	1.86	0.50	ug/L	2.000	ND	93.1	75-125			
Matrix Spike Dup (B7K0442-MSD1)		**Source: 17K0132-12**		*Prepared: 11/14/2017 09:30*			*Analyzed: 11/14/2017 12:06*			
Mercury	1.75	0.50	ug/L	2.000	0.13	80.9	75-125	0.683	20	
Matrix Spike Dup (B7K0442-MSD2)		**Source: 17K0134-04**		*Prepared: 11/14/2017 09:30*			*Analyzed: 11/14/2017 12:44*			
Mercury	1.68	0.50	ug/L	2.000	ND	84.2	75-125	10.1	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Anions by Ion Chromatography

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0328										
Blank (B7K0328-BLK1)				*Prepared: 11/10/2017 08:54*		*Analyzed: 11/10/2017 20:50*				
Chloride	< 0.300	0.300	mg/L							
Fluoride	< 0.0500	0.0500	mg/L							
Nitrogen, Nitrate	< 0.0500	0.0500	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B7K0328-BS1)				*Prepared: 11/10/2017 08:54*		*Analyzed: 11/10/2017 21:19*				
Chloride	0.208	0.300	mg/L	0.2000		104	80-120			
Fluoride	0.199	0.0500	mg/L	0.2000		99.5	80-120			
Nitrogen, Nitrate	0.0900	0.0500	mg/L	0.09040		99.6	80-120			
Sulfate	0.395	0.500	mg/L	0.4000		98.8	80-120			
LCS (B7K0328-BS2)				*Prepared: 11/10/2017 08:54*		*Analyzed: 11/10/2017 21:48*				
Chloride	5.17	0.300	mg/L	5.000		103	80-120			
Fluoride	5.22	0.0500	mg/L	5.000		104	80-120			
Nitrogen, Nitrate	2.21	0.0500	mg/L	2.260		98.0	80-120			
Sulfate	10.1	0.500	mg/L	10.00		101	80-120			
Matrix Spike (B7K0328-MS1)		**Source: 17K0134-06**		*Prepared: 11/10/2017 08:54*		*Analyzed: 11/11/2017 04:01*				
Chloride	27.7	3.00	mg/L	25.00	2.38	101	80-120			
Fluoride	27.3	0.500	mg/L	25.00	0.380	108	80-120			
Nitrogen, Nitrate	27.3	0.500	mg/L	25.00	1.57	103	80-120			
Sulfate	78.7	5.00	mg/L	25.00	54.2	98.1	80-120			
Matrix Spike Dup (B7K0328-MSD1)		**Source: 17K0134-06**		*Prepared: 11/10/2017 08:54*		*Analyzed: 11/11/2017 04:30*				
Chloride	27.6	3.00	mg/L	25.00	2.38	101	80-120	0.253	15	
Fluoride	27.2	0.500	mg/L	25.00	0.380	107	80-120	0.624	15	
Nitrogen, Nitrate	27.1	0.500	mg/L	25.00	1.57	102	80-120	0.552	15	
Sulfate	79.8	5.00	mg/L	25.00	54.2	103	80-120	1.49	20	
Batch: B7K0393										
Blank (B7K0393-BLK1)				*Prepared: 11/13/2017 10:24*		*Analyzed: 11/13/2017 19:03*				
Chloride	< 0.300	0.300	mg/L							
Sulfate	< 0.500	0.500	mg/L							
LCS (B7K0393-BS1)				*Prepared: 11/13/2017 10:24*		*Analyzed: 11/13/2017 19:32*				
Chloride	0.218	0.300	mg/L	0.2000		109	80-120			
Sulfate	0.391	0.500	mg/L	0.4000		97.8	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Anions by Ion Chromatography

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0393 *(Continued)*										
LCS (B7K0393-BS2)				*Prepared: 11/13/2017 10:24*			*Analyzed: 11/13/2017 20:00*			
Chloride	5.08	0.300	mg/L	5.000		102	80-120			
Sulfate	9.94	0.500	mg/L	10.00		99.4	80-120			
Matrix Spike (B7K0393-MS1)			**Source: 17K0134-03RE1**	*Prepared: 11/13/2017 10:24*			*Analyzed: 11/13/2017 21:55*			
Chloride	301	30.0	mg/L	250.0	48.6	101	80-120			
Sulfate	598	50.0	mg/L	250.0	348	100	80-120			
Matrix Spike Dup (B7K0393-MSD1)			**Source: 17K0134-03RE1**	*Prepared: 11/13/2017 10:24*			*Analyzed: 11/13/2017 22:23*			
Chloride	302	30.0	mg/L	250.0	48.6	102	80-120	0.497	15	
Sulfate	601	50.0	mg/L	250.0	348	101	80-120	0.601	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0384 - SW9010B										
Blank (B7K0384-BLK1)				*Prepared: 11/13/2017 08:00*			*Analyzed: 11/13/2017 11:09*			
Cyanide	< 0.010	0.010	mg/L							
LCS (B7K0384-BS1)				*Prepared: 11/13/2017 08:00*			*Analyzed: 11/13/2017 11:09*			
Cyanide	0.050	0.010	mg/L	0.05000		100	85-115			
Matrix Spike (B7K0384-MS1)		**Source: 17K0134-06**		*Prepared: 11/13/2017 08:00*			*Analyzed: 11/13/2017 11:35*			
Cyanide	0.195	0.010	mg/L	0.2000	ND	97.7	80-120			
Matrix Spike Dup (B7K0384-MSD1)		**Source: 17K0134-06**		*Prepared: 11/13/2017 08:00*			*Analyzed: 11/13/2017 11:40*			
Cyanide	0.196	0.010	mg/L	0.2000	ND	98.0	80-120	0.355	20	
Batch: B7K0473										
Blank (B7K0473-BLK1)				*Prepared: 11/14/2017 14:32*			*Analyzed: 11/14/2017 14:32*			
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0	mg/L							
LCS (B7K0473-BS1)				*Prepared: 11/14/2017 14:32*			*Analyzed: 11/14/2017 14:32*			
Total Dissolved Solids (Residue, Filterable)	976	10.0	mg/L	1000		97.6	85-111			
Duplicate (B7K0473-DUP1)		**Source: 17K0402-01**		*Prepared: 11/14/2017 14:32*			*Analyzed: 11/14/2017 14:32*			
Total Dissolved Solids (Residue, Filterable)	480	10.0	mg/L		484			0.830	5	
Duplicate (B7K0473-DUP2)		**Source: 17K0134-03**		*Prepared: 11/14/2017 14:32*			*Analyzed: 11/14/2017 14:32*			
Total Dissolved Solids (Residue, Filterable)	944	10.0	mg/L		966			2.30	5	
Batch: B7K0481										
Blank (B7K0481-BLK1)				*Prepared: 11/15/2017 08:00*			*Analyzed: 11/15/2017 13:11*			
Phenolics, Total Recoverable	< 0.0100	0.0100	mg/L							
LCS (B7K0481-BS1)				*Prepared: 11/15/2017 08:00*			*Analyzed: 11/15/2017 13:11*			
Phenolics, Total Recoverable	0.0564	0.0100	mg/L	0.05000		113	90.5-115			
Matrix Spike (B7K0481-MS1)		**Source: 17K0130-01**		*Prepared: 11/15/2017 08:00*			*Analyzed: 11/15/2017 12:24*			
Phenolics, Total Recoverable	0.935	0.00960	mg/L	0.05000	0.893	85.2	80-120			
Matrix Spike (B7K0481-MS2)		**Source: 17K0134-06**		*Prepared: 11/15/2017 08:00*			*Analyzed: 11/15/2017 12:12*			
Phenolics, Total Recoverable	0.0587	0.0100	mg/L	0.05000	ND	117	80-120			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0481 *(Continued)*										
Matrix Spike Dup (B7K0481-MSD1)		**Source: 17K0130-01**		*Prepared: 11/15/2017 08:00*		*Analyzed: 11/15/2017 12:24*				
Phenolics, Total Recoverable	0.903	0.0100	mg/L	0.05000	0.893	20.9	80-120	3.50	20	S
Matrix Spike Dup (B7K0481-MSD2)		**Source: 17K0134-06**		*Prepared: 11/15/2017 08:00*		*Analyzed: 11/15/2017 12:12*				
Phenolics, Total Recoverable	0.0544	0.0100	mg/L	0.05000	ND	109	80-120	7.56	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0487 - SW3510										
Blank (B7K0487-BLK1)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/17/2017 18:25*			
alpha-BHC	< 0.0500	0.0500	ug/L							
Chlordane	< 0.500	0.500	ug/L							
Endrin	< 0.0500	0.0500	ug/L							
Lindane (gamma-BHC)	< 0.0500	0.0500	ug/L							
Heptachlor	< 0.0500	0.0500	ug/L							
Heptachlor epoxide	< 0.0500	0.0500	ug/L							
Methoxychlor	< 0.0500	0.0500	ug/L							
Toxaphene	< 2.00	2.00	ug/L							
Surrogate: Decachlorobiphenyl	*ND*		*ug/L*	*0.2000*		*69*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*ND*		*ug/L*	*0.2000*		*58*	*21-124*			
Blank (B7K0487-BLK2)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/16/2017 19:07*			
Alachlor	< 0.500	0.500	ug/L							
Atrazine	< 0.500	0.500	ug/L							
Simazine	< 0.500	0.500	ug/L							
LCS (B7K0487-BS1)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/17/2017 19:12*			
alpha-BHC	0.0878	0.0500	ug/L	0.2000		44	0-137			
Endrin	0.111	0.0500	ug/L	0.2000		56	34-154			
Lindane (gamma-BHC)	0.0881	0.0500	ug/L	0.2000		44	10-130			
Heptachlor	0.0959	0.0500	ug/L	0.2000		48	9-147			
Heptachlor epoxide	0.106	0.0500	ug/L	0.2000		53	32-121			
Methoxychlor	0.132	0.0500	ug/L	0.2000		66	52-146			
Surrogate: Decachlorobiphenyl	*0.118*		*ug/L*	*0.2000*		*59*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0848*		*ug/L*	*0.2000*		*42*	*21-124*			
LCS (B7K0487-BS2)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/16/2017 21:27*			
Alachlor	0.613	0.500	ug/L	1.000		61	0-200			
Atrazine	0.604	0.500	ug/L	1.000		60	26-129			
Simazine	0.481	0.500	ug/L	1.000		48	35-124			
Surrogate: Decachlorobiphenyl	*0.0724*		*ug/L*	*0.2000*		*36*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.105*		*ug/L*	*0.2000*		*53*	*21-124*			

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Quality Control

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Client: City, Water, Light & Power
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4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Organochlorine Pesticides by GC/ECD

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0487 - SW3510 *(Continued)*										
LCS Dup (B7K0487-BSD1)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/17/2017 19:59*			
alpha-BHC	0.0902	0.0500	ug/L	0.2000		45	0-137	3	20	
Endrin	0.128	0.0500	ug/L	0.2000		64	34-154	14	20	
Lindane (gamma-BHC)	0.0922	0.0500	ug/L	0.2000		46	10-130	5	20	
Heptachlor	0.0984	0.0500	ug/L	0.2000		49	9-147	3	20	
Heptachlor epoxide	0.118	0.0500	ug/L	0.2000		59	32-121	11	20	
Methoxychlor	0.153	0.0500	ug/L	0.2000		77	52-146	15	20	
Surrogate: Decachlorobiphenyl	*0.136*		*ug/L*	*0.2000*		*68*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.0868*		*ug/L*	*0.2000*		*43*	*21-124*			
LCS Dup (B7K0487-BSD2)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/16/2017 22:13*			
Alachlor	0.594	0.500	ug/L	1.000		59	0-200	3	20	
Atrazine	0.592	0.500	ug/L	1.000		59	26-129	2	20	
Simazine	0.495	0.500	ug/L	1.000		50	35-124	3	20	
Surrogate: Decachlorobiphenyl	*0.0760*		*ug/L*	*0.2000*		*38*	*30-109*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	*0.111*		*ug/L*	*0.2000*		*56*	*21-124*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Polychlorinated Biphenyls (PCBs) by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0489 - SW3510										
Blank (B7K0489-BLK1)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/15/2017 18:25*			
Total PCB [2C]	< 1.00	1.00	ug/L							
Surrogate: Decachlorobiphenyl [2C]	*0.132*		*ug/L*	*0.1000*		*132*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0807*		*ug/L*	*0.1000*		*81*	*13-133*			
LCS (B7K0489-BS1)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/15/2017 18:52*			
Surrogate: Decachlorobiphenyl [2C]	*0.121*		*ug/L*	*0.1000*		*121*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0853*		*ug/L*	*0.1000*		*85*	*13-133*			
LCS Dup (B7K0489-BSD1)				*Prepared: 11/15/2017 09:27*			*Analyzed: 11/15/2017 19:19*			
Surrogate: Decachlorobiphenyl [2C]	*0.130*		*ug/L*	*0.1000*		*130*	*40-135*			
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	*0.0827*		*ug/L*	*0.1000*		*83*	*13-133*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Carbamates by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0742										
Blank (B7K0742-BLK1)				*Prepared: 11/21/2017 06:18*			*Analyzed: 11/21/2017 07:26*			
Aldicarb	< 2.00	2.00	ug/L							
Carbofuran	< 2.00	2.00	ug/L							
LCS (B7K0742-BS1)				*Prepared: 11/21/2017 06:18*			*Analyzed: 11/21/2017 08:02*			
Aldicarb	52.9	2.00	ug/L	50.00		106	85-115			
Carbofuran	53.7	2.00	ug/L	50.00		107	85-115			
LCS Dup (B7K0742-BSD1)				*Prepared: 11/21/2017 06:18*			*Analyzed: 11/21/2017 08:38*			
Aldicarb	52.1	2.00	ug/L	50.00		104	85-115	2	20	
Carbofuran	53.1	2.00	ug/L	50.00		106	85-115	1	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Herbicides by High Pressure Liquid Chromatography (HPLC)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0503 - SW3510										
Blank (B7K0503-BLK1)				*Prepared: 11/15/2017 11:58*			*Analyzed: 11/15/2017 17:14*			
2,4,5-TP (Silvex)	< 1.50	1.50	ug/L							
2,4-D	< 1.50	1.50	ug/L							
Dicamba	< 1.50	1.50	ug/L							
Dinoseb	< 1.50	1.50	ug/L							
Picloram	< 1.50	1.50	ug/L							
Surrogate: 3,5-Dichlorobenzoic Acid	*24.3*		*ug/L*	*25.00*		*97*	*37-128*			
LCS (B7K0503-BS1)				*Prepared: 11/15/2017 11:58*			*Analyzed: 11/15/2017 17:55*			
2,4,5-TP (Silvex)	9.77	1.50	ug/L	10.00		98	66-120			
2,4-D	9.36	1.50	ug/L	10.00		94	44.4-117			
Dicamba	8.99	1.50	ug/L	10.00		90	25-101			
Picloram	9.11	1.50	ug/L	10.00		91	10-122			
Surrogate: 3,5-Dichlorobenzoic Acid	*23.7*		*ug/L*	*25.00*		*95*	*37-128*			
LCS (B7K0503-BS2)				*Prepared: 11/15/2017 11:58*			*Analyzed: 11/15/2017 19:18*			
Dinoseb	9.05	1.50	ug/L	10.00		91	54.9-111			
Surrogate: 3,5-Dichlorobenzoic Acid	*29.8*		*ug/L*	*30.00*		*99*	*37-128*			
LCS Dup (B7K0503-BSD1)				*Prepared: 11/15/2017 11:58*			*Analyzed: 11/15/2017 16:33*			
2,4,5-TP (Silvex)	9.60	1.50	ug/L	10.00		96	66-120	2	20	
2,4-D	9.43	1.50	ug/L	10.00		94	44.4-117	0.7	20	
Dicamba	9.36	1.50	ug/L	10.00		94	25-101	4	20	
Picloram	9.29	1.50	ug/L	10.00		93	10-122	2	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*24.1*		*ug/L*	*25.00*		*96*	*37-128*			
LCS Dup (B7K0503-BSD2)				*Prepared: 11/15/2017 11:58*			*Analyzed: 11/15/2017 19:59*			
Dinoseb	10.3	1.50	ug/L	10.00		103	54.9-111	13	20	
Surrogate: 3,5-Dichlorobenzoic Acid	*35.7*		*ug/L*	*30.00*		*119*	*37-128*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0413 - SW5030										
Blank (B7K0413-BLK1)				*Prepared: 11/10/2017 11:00 Analyzed: 11/10/2017 13:59*						
1,1,1-Trichloroethane	< 4.00	4.00	ug/L							
1,1,2-Trichloroethane	< 4.00	4.00	ug/L							
1,1-Dichloroethane	< 6.00	6.00	ug/L							
1,1-Dichloroethene	< 4.00	4.00	ug/L							
1,2-Dichloroethane	< 8.00	8.00	ug/L							
1,2-Dichloropropane	< 4.00	4.00	ug/L							
p-Dioxane (1,4-Dioxane)	< 200	200	ug/L							
Methyl ethyl ketone (2-Butanone)	< 40.0	40.0	ug/L							
Acetone	< 40.0	40.0	ug/L							
Benzene	< 4.00	4.00	ug/L							
Carbon tetrachloride	< 4.00	4.00	ug/L							
Chlorobenzene	< 4.00	4.00	ug/L							
Chloroform	< 8.00	8.00	ug/L							
cis-1,2-Dichloroethene	< 4.00	4.00	ug/L							
Dichlorodifluoromethane	< 8.00	8.00	ug/L							
Ethylbenzene	< 10.0	10.0	ug/L							
Isopropylbenzene	< 2.00	2.00	ug/L							
Methyl tert-butyl ether	< 8.00	8.00	ug/L							
Dichloromethane (Methylene chloride)	< 8.00	8.00	ug/L							
Styrene	< 30.0	30.0	ug/L							
Tetrachloroethene	< 4.00	4.00	ug/L							
Toluene	< 4.00	4.00	ug/L							
trans-1,2-Dichloroethene	< 4.00	4.00	ug/L							
Trichloroethene	< 4.00	4.00	ug/L							
Trichlorofluoromethane	< 8.00	8.00	ug/L							
Vinyl chloride	< 4.00	4.00	ug/L							
Xylenes, Total	< 10.0	10.0	ug/L							
Surrogate: Dibromofluoromethane	*19.3*		*ug/L*	*20.00*		*96*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*19.2*		*ug/L*	*20.00*		*96*	*87-127*			
Surrogate: Fluorobenzene	*19.8*		*ug/L*	*20.00*		*99*	*80-116*			
Surrogate: Toluene-d8	*19.5*		*ug/L*	*20.00*		*97*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*9.77*		*ug/L*	*10.00*		*98*	*82-125*			
Surrogate: 1,2-Dichlorobenzene-d4	*21.4*		*ug/L*	*20.00*		*107*	*87-138*			
LCS (B7K0413-BS1)				*Prepared: 11/10/2017 11:00 Analyzed: 11/10/2017 12:23*						
1,1,1-Trichloroethane	79.9	4.00	ug/L	80.00		100	74-131			
1,1,2-Trichloroethane	72.1	4.00	ug/L	80.00		90	83-118			
1,1-Dichloroethane	78.6	6.00	ug/L	80.00		98	77-125			
1,1-Dichloroethene	78.6	4.00	ug/L	80.00		98	71-131			
1,2-Dichloroethane	68.9	8.00	ug/L	80.00		86	73-128			
1,2-Dichloropropane	78.6	4.00	ug/L	80.00		98	78-122			
p-Dioxane (1,4-Dioxane)	720	200	ug/L	800.0		90	59-139			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0413 - SW5030 *(Continued)*										
LCS (B7K0413-BS1) (Continued)				*Prepared: 11/10/2017 11:00*			*Analyzed: 11/10/2017 12:23*			
Methyl ethyl ketone (2-Butanone)	248	40.0	ug/L	280.0		88	71-119			
Acetone	251	40.0	ug/L	280.0		90	39-160			
Benzene	81.2	4.00	ug/L	80.00		102	79-120			
Carbon tetrachloride	85.4	4.00	ug/L	80.00		107	75-125			
Chlorobenzene	82.1	4.00	ug/L	80.00		103	82-118			
Chloroform	74.1	8.00	ug/L	80.00		93	79-124			
cis-1,2-Dichloroethene	77.1	4.00	ug/L	80.00		96	78-123			
Dichlorodifluoromethane	74.5	8.00	ug/L	80.00		93	66-150			
Ethylbenzene	89.3	10.0	ug/L	80.00		112	79-121			
Isopropylbenzene	90.9	2.00	ug/L	80.00		114	72-131			
Methyl tert-butyl ether	71.5	8.00	ug/L	80.00		89	71-124			
Dichloromethane (Methylene chloride)	74.9	8.00	ug/L	80.00		94	74-124			
Styrene	83.0	30.0	ug/L	80.00		104	78-123			
Tetrachloroethene	81.1	4.00	ug/L	80.00		101	74-129			
Toluene	86.3	4.00	ug/L	80.00		108	80-117			
trans-1,2-Dichloroethene	82.0	4.00	ug/L	80.00		103	75-124			
Trichloroethene	80.6	4.00	ug/L	80.00		101	84-113			
Trichlorofluoromethane	80.6	8.00	ug/L	80.00		101	73-134			
Vinyl chloride	78.8	4.00	ug/L	80.00		98	58-137			
Xylenes, Total	265	10.0	ug/L	240.0		111	79-121			
Surrogate: Dibromofluoromethane	*18.4*		*ug/L*	*20.00*		*92*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*17.3*		*ug/L*	*20.00*		*87*	*87-127*			
Surrogate: Fluorobenzene	*19.7*		*ug/L*	*20.00*		*99*	*80-116*			
Surrogate: Toluene-d8	*21.0*		*ug/L*	*20.00*		*105*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*9.65*		*ug/L*	*10.00*		*96*	*82-125*			
Surrogate: 1,2-Dichlorobenzene-d4	*19.2*		*ug/L*	*20.00*		*96*	*87-138*			
LCS Dup (B7K0413-BSD1)				*Prepared: 11/10/2017 11:00*			*Analyzed: 11/10/2017 12:55*			
1,1,1-Trichloroethane	79.7	4.00	ug/L	80.00		100	74-131	0.2	20	
1,1,2-Trichloroethane	76.4	4.00	ug/L	80.00		96	83-118	6	20	
1,1-Dichloroethane	79.4	6.00	ug/L	80.00		99	77-125	0.9	20	
1,1-Dichloroethene	77.6	4.00	ug/L	80.00		97	71-131	1	20	
1,2-Dichloroethane	70.9	8.00	ug/L	80.00		89	73-128	3	20	
1,2-Dichloropropane	80.6	4.00	ug/L	80.00		101	78-122	3	20	
p-Dioxane (1,4-Dioxane)	977	200	ug/L	800.0		122	59-139	30	20	P
Methyl ethyl ketone (2-Butanone)	274	40.0	ug/L	280.0		98	71-119	10	20	
Acetone	272	40.0	ug/L	280.0		97	39-160	8	20	
Benzene	81.7	4.00	ug/L	80.00		102	79-120	0.6	20	
Carbon tetrachloride	84.3	4.00	ug/L	80.00		105	75-125	1	20	
Chlorobenzene	82.4	4.00	ug/L	80.00		103	82-118	0.3	20	
Chloroform	74.4	8.00	ug/L	80.00		93	79-124	0.5	20	
cis-1,2-Dichloroethene	77.6	4.00	ug/L	80.00		97	78-123	0.6	20	

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0413 - SW5030 *(Continued)*										
LCS Dup (B7K0413-BSD1) (Continued)				*Prepared: 11/10/2017 11:00*			*Analyzed: 11/10/2017 12:55*			
Dichlorodifluoromethane	73.0	8.00	ug/L	80.00		91	66-150	2	20	
Ethylbenzene	89.1	10.0	ug/L	80.00		111	79-121	0.2	20	
Isopropylbenzene	89.0	2.00	ug/L	80.00		111	72-131	2	20	
Methyl tert-butyl ether	76.0	8.00	ug/L	80.00		95	71-124	6	20	
Dichloromethane (Methylene chloride)	77.1	8.00	ug/L	80.00		96	74-124	3	20	
Styrene	87.2	30.0	ug/L	80.00		109	78-123	5	20	
Tetrachloroethene	78.6	4.00	ug/L	80.00		98	74-129	3	20	
Toluene	84.9	4.00	ug/L	80.00		106	80-117	2	20	
trans-1,2-Dichloroethene	81.4	4.00	ug/L	80.00		102	75-124	0.7	20	
Trichloroethene	81.3	4.00	ug/L	80.00		102	84-113	0.8	20	
Trichlorofluoromethane	78.0	8.00	ug/L	80.00		98	73-134	3	20	
Vinyl chloride	74.7	4.00	ug/L	80.00		93	58-137	5	20	
Xylenes, Total	265	10.0	ug/L	240.0		110	79-121	0.1	20	
Surrogate: Dibromofluoromethane	*18.9*		*ug/L*	*20.00*		*94*	*84-137*			
Surrogate: 1,2-Dichloroethane-d4	*18.4*		*ug/L*	*20.00*		*92*	*87-127*			
Surrogate: Fluorobenzene	*20.2*		*ug/L*	*20.00*		*101*	*80-116*			
Surrogate: Toluene-d8	*21.6*		*ug/L*	*20.00*		*108*	*85-112*			
Surrogate: 4-Bromofluorobenzene	*10.3*		*ug/L*	*10.00*		*103*	*82-125*			
Surrogate: 1,2-Dichlorobenzene-d4	*20.1*		*ug/L*	*20.00*		*101*	*87-138*			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Semivolatile Organic Compounds by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7L0581										
Blank (B7L0581-BLK1)				*Prepared: 12/06/2017 08:00*			*Analyzed: 12/06/2017 11:15*			
1,2-Dibromo-3-chloropropane	< 0.200	0.200	ug/L							
Ethylene Dibromide (1,2-Dibromoethane)	< 0.200	0.200	ug/L							
LCS (B7L0581-BS1)				*Prepared: 12/06/2017 08:00*			*Analyzed: 12/06/2017 11:46*			
1,2-Dibromo-3-chloropropane	0.275	0.200	ug/L	0.2500		110	70-130			
Ethylene Dibromide (1,2-Dibromoethane)	0.269	0.200	ug/L	0.2500		108	70-130			
LCS Dup (B7L0581-BSD1)				*Prepared: 12/06/2017 08:00*			*Analyzed: 12/06/2017 12:46*			
1,2-Dibromo-3-chloropropane	0.277	0.200	ug/L	0.2500		111	70-130	0.6	20	
Ethylene Dibromide (1,2-Dibromoethane)	0.280	0.200	ug/L	0.2500		112	70-130	4	20	
Matrix Spike (B7L0581-MS1)		**Source: 17K0728-01**		*Prepared: 12/06/2017 08:00*			*Analyzed: 12/06/2017 17:29*			
1,2-Dibromo-3-chloropropane	0.262	0.179	ug/L	0.2244	ND	117	65-135			
Ethylene Dibromide (1,2-Dibromoethane)	0.250	0.179	ug/L	0.2244	ND	112	65-135			

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Semivolatile Organic Compounds by GC/FID

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7L0344										
Blank (B7L0344-BLK1)				*Prepared: 12/04/2017 04:00*			*Analyzed: 12/05/2017 21:43*			
Dalapon	< 1.60	1.60	ug/L							
Surrogate: 2,4-Dichlorophenylacetic acid	*7.92*		*ug/L*	*10.00*		*79*	*70-130*			
LCS (B7L0344-BS1)				*Prepared: 12/04/2017 04:00*			*Analyzed: 12/05/2017 22:20*			
Dalapon	10.9	1.60	ug/L	10.00		109	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*8.85*		*ug/L*	*10.00*		*88*	*70-130*			
Duplicate (B7L0344-DUP1)		**Source: 17K0134-01**		*Prepared: 12/04/2017 04:00*			*Analyzed: 12/06/2017 12:36*			
Dalapon	< 0.292	1.60	ug/L		ND				20	
Surrogate: 2,4-Dichlorophenylacetic acid	*12.9*		*ug/L*	*10.00*		*129*	*70-130*			
Matrix Spike (B7L0344-MS1)		**Source: 17K0134-06**		*Prepared: 12/04/2017 04:00*			*Analyzed: 12/05/2017 23:33*			
Dalapon	12.1	1.60	ug/L	10.00	ND	121	70-130			
Surrogate: 2,4-Dichlorophenylacetic acid	*0.00*		*ug/L*	*10.00*			*70-130*			*S*
Matrix Spike Dup (B7L0344-MSD1)		**Source: 17K0134-06**		*Prepared: 12/04/2017 04:00*			*Analyzed: 12/06/2017 00:09*			
Dalapon	11.8	1.60	ug/L	10.00	ND	118	70-130	2	20	
Surrogate: 2,4-Dichlorophenylacetic acid	*0.00*		*ug/L*	*10.00*			*70-130*			*S*

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0590 - SW3510										
Blank (B7K0590-BLK1)				*Prepared: 11/15/2017 12:00 Analyzed: 11/17/2017 13:05*						
1,2,4-Trichlorobenzene	< 4.00	4.00	ug/L							
o-Dichlorobenzene (1,2-Dichlorobenzene)	< 2.00	2.00	ug/L							
p-Dichlorobenzene (1,4-Dichlorobenzene)	< 2.00	2.00	ug/L							
2-Methylnaphthalene	< 2.00	2.00	ug/L							
2-Methylphenol	< 2.00	2.00	ug/L							
Acenaphthene	< 2.00	2.00	ug/L							
Anthracene	< 2.00	2.00	ug/L							
Benzo(a)anthracene	< 4.00	4.00	ug/L							
Benzo(a)pyrene	< 4.00	4.00	ug/L							
Benzo(b)fluoranthene	< 10.0	10.0	ug/L							
Benzo(k)fluoranthene	< 10.0	10.0	ug/L							
Benzoic acid	< 50.0	50.0	ug/L							
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	< 25.0	25.0	ug/L							
Chrysene	< 2.00	2.00	ug/L							
Dibenzo(a,h)anthracene	< 10.0	10.0	ug/L							
Diethyl phthalate	< 4.00	4.00	ug/L							
Di-n-butyl phthalate	< 10.0	10.0	ug/L							
Fluoranthene	< 4.00	4.00	ug/L							
Fluorene	< 2.00	2.00	ug/L							
Hexachlorocyclopentadiene	< 10.0	10.0	ug/L							
Indeno(1,2,3-cd)pyrene	< 25.0	25.0	ug/L							
Naphthalene	< 2.00	2.00	ug/L							
Pentachlorophenol	< 50.0	50.0	ug/L							
Pyrene	< 2.00	2.00	ug/L							
Surrogate: 2-Fluorophenol	*6.48*		*ug/L*	*33.34*		*19*	*4-108*			
Surrogate: Phenol-d5	*4.10*		*ug/L*	*33.34*		*12*	*1-101*			
Surrogate: Nitrobenzene-d5	*11.4*		*ug/L*	*33.34*		*34*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*11.8*		*ug/L*	*33.34*		*35*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*7.57*		*ug/L*	*33.34*		*23*	*11-102*			
Surrogate: 4-Terphenyl-d14	*40.4*		*ug/L*	*33.34*		*121*	*79-147*			
LCS (B7K0590-BS1)				*Prepared: 11/15/2017 12:00 Analyzed: 11/17/2017 13:40*						
1,2,4-Trichlorobenzene	39.6	4.00	ug/L	50.00		79	21-145			
o-Dichlorobenzene (1,2-Dichlorobenzene)	33.6	2.00	ug/L	50.00		67	22-139			
p-Dichlorobenzene (1,4-Dichlorobenzene)	32.9	2.00	ug/L	50.00		66	23-137			
2-Methylnaphthalene	44.4	2.00	ug/L	50.00		89	42-131			
2-Methylphenol	36.5	2.00	ug/L	50.00		73	36-131			
Acenaphthene	44.5	2.00	ug/L	50.00		89	30-137			
Anthracene	51.6	2.00	ug/L	50.00		103	60-116			
Benzo(a)anthracene	53.0	4.00	ug/L	50.00		106	58-123			
Benzo(a)pyrene	39.8	4.00	ug/L	50.00		80	49-124			
Benzo(b)fluoranthene	42.2	10.0	ug/L	50.00		84	50-125			

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Environmental Monitoring and Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0590 - SW3510 *(Continued)*										
LCS (B7K0590-BS1) (Continued)				*Prepared: 11/15/2017 12:00*			*Analyzed: 11/17/2017 13:40*			
Benzo(k)fluoranthene	45.4	10.0	ug/L	50.00		91	44-148			
Benzoic acid	26.8	50.0	ug/L	100.0		27	7-112			
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	51.2	25.0	ug/L	50.00		102	26-156			
Chrysene	54.3	2.00	ug/L	50.00		109	53-138			
Dibenzo(a,h)anthracene	39.9	10.0	ug/L	50.00		80	42-125			
Diethyl phthalate	50.3	4.00	ug/L	50.00		101	30-151			
Di-n-butyl phthalate	50.2	10.0	ug/L	50.00		100	48-128			
Fluoranthene	54.1	4.00	ug/L	50.00		108	39-144			
Fluorene	47.0	2.00	ug/L	50.00		94	30-145			
Hexachlorocyclopentadiene	47.5	10.0	ug/L	50.00		95	23-119			
Indeno(1,2,3-cd)pyrene	40.2	25.0	ug/L	50.00		80	23-140			
Naphthalene	42.6	2.00	ug/L	50.00		85	28-142			
Pentachlorophenol	36.5	50.0	ug/L	50.00		73	37-112			
Pyrene	54.1	2.00	ug/L	50.00		108	42-144			
Surrogate: 2-Fluorophenol	*13.6*		*ug/L*	*33.34*		*41*	*4-108*			
Surrogate: Phenol-d5	*9.65*		*ug/L*	*33.34*		*29*	*1-101*			
Surrogate: Nitrobenzene-d5	*26.3*		*ug/L*	*33.34*		*79*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*28.4*		*ug/L*	*33.34*		*85*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*28.2*		*ug/L*	*33.34*		*85*	*11-102*			
Surrogate: 4-Terphenyl-d14	*37.6*		*ug/L*	*33.34*		*113*	*79-147*			
LCS Dup (B7K0590-BSD1)				*Prepared: 11/15/2017 12:00*			*Analyzed: 11/17/2017 14:27*			
1,2,4-Trichlorobenzene	34.9	4.00	ug/L	50.00		70	21-145	13	20	
o-Dichlorobenzene (1,2-Dichlorobenzene)	30.1	2.00	ug/L	50.00		60	22-139	11	20	
p-Dichlorobenzene (1,4-Dichlorobenzene)	29.3	2.00	ug/L	50.00		59	23-137	11	20	
2-Methylnaphthalene	39.1	2.00	ug/L	50.00		78	42-131	13	20	
2-Methylphenol	29.8	2.00	ug/L	50.00		60	36-131	20	20	
Acenaphthene	41.3	2.00	ug/L	50.00		83	30-137	7	20	
Anthracene	50.1	2.00	ug/L	50.00		100	60-116	3	20	
Benzo(a)anthracene	53.6	4.00	ug/L	50.00		107	58-123	1	20	
Benzo(a)pyrene	38.5	4.00	ug/L	50.00		77	49-124	3	20	
Benzo(b)fluoranthene	40.4	10.0	ug/L	50.00		81	50-125	5	20	
Benzo(k)fluoranthene	43.4	10.0	ug/L	50.00		87	44-148	4	20	
Benzoic acid	26.4	50.0	ug/L	100.0		26	7-112	2	20	
Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate)	48.7	25.0	ug/L	50.00		97	26-156	5	20	
Chrysene	53.1	2.00	ug/L	50.00		106	53-138	2	20	
Dibenzo(a,h)anthracene	36.4	10.0	ug/L	50.00		73	42-125	9	20	
Diethyl phthalate	47.9	4.00	ug/L	50.00		96	30-151	5	20	
Di-n-butyl phthalate	48.2	10.0	ug/L	50.00		96	48-128	4	20	
Fluoranthene	51.6	4.00	ug/L	50.00		103	39-144	5	20	
Fluorene	44.9	2.00	ug/L	50.00		90	30-145	5	20	
Hexachlorocyclopentadiene	40.8	10.0	ug/L	50.00		82	23-119	15	20	

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Environmental Monitoring and Technologies, Inc.

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Quality Control

(Continued)

Client: City, Water, Light & Power
Project: List G20
4Q2017
Work Order: 17K0134

Report Date: 01/09/2018
Matrix: Water

Semivolatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch: B7K0590 - SW3510 *(Continued)*										
LCS Dup (B7K0590-BSD1) (Continued)				*Prepared: 11/15/2017 12:00*			*Analyzed: 11/17/2017 14:27*			
Indeno(1,2,3-cd)pyrene	40.3	25.0	ug/L	50.00		81	23-140	0.02	20	
Naphthalene	36.5	2.00	ug/L	50.00		73	28-142	16	20	
Pentachlorophenol	32.9	50.0	ug/L	50.00		66	37-112	10	20	
Pyrene	53.8	2.00	ug/L	50.00		108	42-144	0.6	20	
Surrogate: 2-Fluorophenol	*11.7*		*ug/L*	*33.34*		*35*	*4-108*			
Surrogate: Phenol-d5	*8.29*		*ug/L*	*33.34*		*25*	*1-101*			
Surrogate: Nitrobenzene-d5	*24.0*		*ug/L*	*33.34*		*72*	*23-119*			
Surrogate: 2-Fluorobiphenyl	*26.2*		*ug/L*	*33.34*		*79*	*28-124*			
Surrogate: 2,4,6-Tribromophenol	*27.9*		*ug/L*	*33.34*		*84*	*11-102*			
Surrogate: 4-Terphenyl-d14	*39.3*		*ug/L*	*33.34*		*118*	*79-147*			

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2510B in Water		
Specific Conductance		DoD,ILEPA
SM2540C in Water		
Total Dissolved Solids (Residue, Filterable)		DoD,ILEPA,WDNR
SM2550-B in Water		
Temperature		ILEPA
SW6020A in Water		
Antimony	7440-36-0	DoD,ILEPA,ISO,WDNR,NJDEP
Arsenic	7440-38-2	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Barium	7440-39-3	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Beryllium	7440-41-7	DoD,ILEPA,ISO,WDNR,NJDEP
Boron	7440-42-8	DoD,ILEPA,WDNR,NJDEP
Cadmium	7440-43-9	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Calcium	7440-70-2	DoD,ILEPA,NJDEP
Chromium	7440-47-3	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Cobalt	7440-48-4	DoD,ILEPA,ISO,WDNR,NJDEP
Copper	7440-50-8	DoD,ILEPA,ISO,WDNR,NJDEP
Iron	7439-89-6	DoD,ILEPA,ISO,WDNR,NJDEP
Lead	7439-92-1	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Manganese	7439-96-5	DoD,ILEPA,ISO,WDNR,NJDEP
Molybdenum	7439-98-7	DoD,ILEPA,WDNR,NJDEP
Nickel	7440-02-0	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Selenium	7782-49-2	DoD,ILEPA,ISO,WDNR,NJDEP
Silver	7440-22-4	DoD,ILEPA,ISO,WDNR,NJDEP
Thallium	7440-28-0	DoD,ILEPA,ISO,WDNR,NJDEP
Vanadium	7440-62-2	DoD,ILEPA,ISO,AKDEC,WDNR,NJDEP
Zinc	7440-66-6	DoD,ILEPA,ISO,WDNR,NJDEP
SW7470A in Water		
Mercury	7439-97-6	DoD,ILEPA,WDNR,NJDEP
SW8081B in Water		
Alachlor	15972-60-8	ILEPA
alpha-BHC	319-84-6	DoD,ILEPA,WDNR
Atrazine	1912-24-9	ILEPA,WDNR
Chlordane	57-74-9	DoD,ILEPA,WDNR
Endrin	72-20-8	DoD,ILEPA,WDNR
Lindane	58-89-9	DoD,ILEPA,WDNR
Heptachlor	76-44-8	DoD,ILEPA,WDNR
Heptachlor epoxide	1024-57-3	DoD,ILEPA,WDNR
Methoxychlor	72-43-5	DoD,ILEPA,WDNR
Simazine	122-34-9	ILEPA
Toxaphene	8001-35-2	DoD,ILEPA,WDNR

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8082A in Water		
Total PCB	1336-36-3	AKDEC,WDNR,DoD,ILEPA
SW8260B in Water		
1,1,1-Trichloroethane	71-55-6	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,LELAP,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,LELAP,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,LELAP,WDNR,DoD,ILEPA
p-Dioxane	123-91-1	WDNR,DoD,ILEPA
Methyl ethyl ketone	78-93-3	LELAP,WDNR,DoD,ILEPA
Acetone	67-64-1	LELAP,WDNR,DoD,ILEPA
Benzene	71-43-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,LELAP,WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,LELAP,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	LELAP,WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	LELAP,WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	LELAP,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	LELAP,WDNR,DoD,ILEPA
Dichloromethane	75-09-2	AKDEC,LELAP,WDNR,DoD,ILEPA
Styrene	100-42-5	LELAP,WDNR,DoD
Tetrachloroethene	127-18-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,LELAP,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,LELAP,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,LELAP,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,LELAP,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,LELAP,WDNR,DoD,ILEPA
SW8270D in Water		
1,2,4-Trichlorobenzene	120-82-1	WDNR,DoD,ILEPA
o-Dichlorobenzene	95-50-1	WDNR,DoD,ILEPA
p-Dichlorobenzene	106-46-7	WDNR,DoD,ILEPA
2-Methylnaphthalene	91-57-6	AKDEC,WDNR,DoD,ILEPA
2-Methylphenol	95-48-7	WDNR,DoD,ILEPA
Acenaphthene	83-32-9	AKDEC,WDNR,DoD,ILEPA
Anthracene	120-12-7	AKDEC,WDNR,DoD,ILEPA
Benzo(a)anthracene	56-55-3	AKDEC,WDNR,DoD,ILEPA
Benzo(a)pyrene	50-32-8	AKDEC,WDNR,DoD,ILEPA
Benzo(b)fluoranthene	205-99-2	AKDEC,WDNR,DoD,ILEPA
Benzo(k)fluoranthene	207-08-9	AKDEC,WDNR,DoD,ILEPA
Benzoic acid	65-85-0	WDNR,DoD,ILEPA

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Environmental Monitoring and Technologies, Inc.

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Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8270D in Water (Continued)		
Di(2-ethylhexyl)phthalate	117-81-7	WDNR,DoD,ILEPA,ISO
Chrysene	218-01-9	AKDEC,WDNR,DoD,ILEPA
Dibenzo(a,h)anthracene	53-70-3	AKDEC,WDNR,DoD,ILEPA
Diethyl phthalate	84-66-2	WDNR,DoD,ILEPA
Di-n-butyl phthalate	84-74-2	WDNR,DoD,ILEPA
Fluoranthene	206-44-0	AKDEC,WDNR,DoD,ILEPA
Fluorene	86-73-7	AKDEC,WDNR,DoD,ILEPA
Hexachlorocyclopentadiene	77-47-4	WDNR,DoD,ILEPA
Indeno(1,2,3-cd)pyrene	193-39-5	AKDEC,WDNR,DoD,ILEPA
Naphthalene	91-20-3	AKDEC,WDNR,DoD,ILEPA
Pentachlorophenol	87-86-5	WDNR,DoD,ILEPA
Pyrene	129-00-0	AKDEC,WDNR,DoD,ILEPA
SW8321B in Water		
2,4,5-TP (Silvex)	93-72-1	DoD,ILEPA,WDNR
2,4-D	94-75-7	DoD,ILEPA,WDNR
Dicamba	1918-00-9	DoD,ILEPA,WDNR
Dinoseb	88-85-7	DoD,ILEPA,WDNR
SW9014 by Aquachem/MIDI in Water		
Cyanide	57-12-5	DoD,ILEPA,WDNR,NJDEP
SW9056A in Water		
Chloride	16887-00-6	DoD,ILEPA,ISO,WDNR,NJDEP
Fluoride	16984-48-8	DoD,ILEPA,WDNR,NJDEP
Nitrogen, Nitrate	14797-55-8	DoD,ILEPA,ISO,WDNR,NJDEP
Sulfate	14808-79-8	DoD,ILEPA,ISO,WDNR,NJDEP
SW9065 by Aquachem/MIDI in Water		
Phenolics, Total Recoverable		DoD,ILEPA,WDNR,NJDEP

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Environmental Monitoring and Technologies, Inc.

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List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	09/01/2017
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2018
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2018
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	08/08/2018
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2018
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2018
NJDEP	State of New Jersey, NELAP Accredited Lab No. IL010	NLC160001	06/30/2018
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2018

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Environmental Monitoring and Technologies, Inc.

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Qualifiers and Definitions

Item	Description
P	The %RPD result is above the laboratory control limits.
S	The recovery is outside of the laboratory control limits.
%Rec	Percent Recovery

Environmental Monitoring and Technologies, Inc.

CHAIN OF CUSTODY

17K0134

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203
Phone: 800-246-0663
Fax: 847-967-67-35

Page 1 of 1

Lab Work Order Number : **17K0134**

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler: C. Duncan	Sampler Signature: Curtis Duncan

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Requested Analyses: 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH	2540C_TDS::6860_PERCHLORATE_SUBBED::9056_IC_Cl::9056_IC_F::9056_IC_NO3::9056_IC_SO4	504_DBCP_EDB	531_CARBAMATES	548_ENDOTHALL::552_DALAPON::6860_PERCHLORATE_SUBBED::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB	6020_Ag::6020_As::6020_Ba::6020_Be::6020_Cd::6020_Co::6020_Cr::6020_Cu::6020_Fe::6020_Mn::6020_Ni::6020_Pb::6020_Sb::6020_Se::6020_Tl::6020_V::6020_Zn::7470_MERCURY	8260B_VOC	9014_CYANIDE	9065_PHENOL	Preservation Code: NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2	pH	Sample Comments
AW-3			GRAB	GW	21	1	2	2	1	7	1	3	1	1										
AP-1	11/9/17	1115	GRAB	GW	21	1	2	2	1	7	1	3	1	1	6.89	02 B-T								
AP-2	11/9/17	1020	GRAB	GW	21	1	2	2	1	7	1	3	1	1	6.78	03								
AP-3	11/9/17	0930	GRAB	GW	21	1	2	2	1	7	1	3	1	1	6.95	04 B-T								
AP-4			GRAB	GW	21	1	2	2	1	7	1	3	1	1										
AP-5			GRAB	GW	21	1	2	2	1	7	1	3	1	1										
Trip Blank 1			GRAB	GW	1							1		0										
Trip Blank 1			GRAB	GW	1							1		0										
Trip Blank 1			GRAB	GW	1							1		0										
Trip Blank 1			GRAB	GW	1							1		0										
Trip Blank 1			GRAB	GW	1							1		0										
Trip Blank 1			GRAB	GW	1							1		0										

Relinquished By: Curtis Duncan	Date/Time: 11/9/17 1345	Received By:	Date/Time: 11/9/17 1345
Relinquished By:	Date/Time: 11/09/17 1740	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time: 11/9/17 1740
Cooler Numbers and Temperatures: 2.6			

Comments: Perchlorate subcontracted by Field Techs

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes: AG=32 oz amber glass,AG=32 oz amber glass, 1:1 H2SO4 to pH <2,G=4 oz glass, MCA (Carbamates),NA=No container- field tested,P=125 ml HDPE Sterile, Filtered,P=32 oz HDPE,P=8 oz HDPE, 1:1 HNO3 to pH <2,P=8 oz HDPE, NaOH to pH >12,V=44 ml VOA vial,V=44 ml VOA vial, 1:1 HCl to pH <2

* Please analyze one trip blank PH 7.00 @ 0720

Response to 1st RTP

Table of Contents

Environmental Monitoring and Technologies, Inc.

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove
IL, 60053-3203

Phone: 800-246-0663
Fax: 847-967-67-35

CHAIN OF CUSTODY

17K0134

Page 1 of 1

Lab Work Order Number **17K0134**

Client Name	Project Name
City, Water, Light & Power	List G20
Client Contact	Project Number
Sue Corcoran	[none]
Address	Project Description
201 East Lake Shore Drive	
City	PO Number
Springfield	
State/Zip	Shipped By
IL, 62707-	
Phone / Fax	Tracking Number
(217) 757-8610 / (217) 757-8615	
Sampler S D Schajda	Sampler Signature

Requested Analyses

- 2510_FIELD_CONDUCTANCE::2550_FIELD_TEMP-F::4500_FIELD_PH
- 2540C_TDS::6860_PERCHLORATE_SUBBED::9056_IC_CL::9056_IC_F::9056_IC_NO3::9056_IC_SO4
- 504_DBCP_EDB
- 531_CARBAMATES
- 548_ENDOTHALL::552_DALAPON::6860_PERCHLORATE_SUBBED::8081B_PEST::8082A_PCB::8270D_SVOC::8321_HERB
- 6020_Ag::6020_Al::6020_B::6020_Ba::6020_Be::6020_Ca::6020_Cd::6020_Co::6020_Cr::6020_Cu::6020_Fe::6020_K::6020_Li::6020_Mg::6020_Mn::6020_Na::6020_Ni::6020_Pb::6020_Sb::6020_Se::6020_Sr::6020_Tl::6020_V::6020_Zn::7470_MERCURY
- 8260B_VOC
- 9014_CYANIDE
- 9065_PHENOL

Requested Turn Around

Rush requests subject to additional charge.

Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Preservation Code NA::1	P::1	V::9	G::10	AG::1	P::3	V::5	P::4	AG::2	pH	Sample Comments
AW-3	11/09/17	10:00	GRAB	GW	21	1	2	2	1	7	1	3	1	1	6.92	01 B-T
AP-1			GRAB	GW	21	1	2	2	1	7	1	3	1	1		
AP-2			GRAB	GW	21	1	2	2	1	7	1	3	1	1		
AP-3			GRAB	GW	21	1	2	2	1	7	1	3	1	1		
AP-4	11/09/17	12:35	GRAB	GW	21	1	2	2	1	7	1	3	1	1	7.12	05 B-T
AP-5	11/09/17	11:25	GRAB	GW	21	1	2	2	1	7	1	3	1	1	7.19	06 B-T
Trip Blank 1			GRAB	GW	1							1		0		07
Trip Blank 1			GRAB	GW	1							1		0		08
Trip Blank 1			GRAB	GW	1							1		0		09
Trip Blank 1			GRAB	GW	1							1		0		10
Trip Blank 1			GRAB	GW	1							1		0		11 A
Trip Blank 1			GRAB	GW	1							1		0		12

Relinquished By	Date/Time	Received By	Date/Time
	11/09/17 17:40		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
			11/9/17 17:40
Cooler Numbers and Temperatures	2.6		

Comments: pH 7.00 -> 2.00 Perchlorate subcontracted by Field Techs

(F) = Field Filtered

Matrix Codes: GW=Groundwater

Preserv. Codes: 1=No Preservative, Store at 4 C,10=MCA, Store at 4 C,2=Sulfuric acid (H2SO4) pH <2, Store at 4 C,3=Nitric acid (HNO3) pH <2, Store at 4 C,4=Sodium hydroxide (NaOH) >12, Store at 4 C,5=Hydrochloric acid (HCl) pH <2, Store at 4 C,9=Sodium thiosulfate (Na2S2O3), Store at 4 C

Cont. Codes: AG=32 oz amber glass,AG=32 oz amber glass, 1:1 H2SO4 to pH <2,G=4 oz glass, MCA (Carbamates),NA=No container- field tested,P=125 ml HDPE Sterile, Filtered,P=32 oz HDPE,P=8 oz HDPE, 1:1 HNO3 to pH <2,P=8 oz HDPE, NaOH to pH >12,V=44 ml VOA vial,V=44 ml VOA vial, 1:1 HCl to pH <2

Table of Contents

Electronic Filing: Received, Clerk's Office 01/29/2020

Sample Receipt Checklist

Work Order: 17K0134

Printed: 11/9/2017 7:11:45PM

Client: City, Water, Light & Power
Project: List G20

Date Due: 11/16/17 17:00 (5 day TAT)

Received By: Christina Rauh
Logged In By: Sarah Akinde

Date Received: 11/09/17 17:40
Date Logged In: 10/25/17 11:45

Samples Received at:	2.6°C
How were samples received?	EMT
Custody Seals Present	No
Custody Seals Intact	NA
Sample Cont/Cooler Intact	Yes
COC Present/Complete	Yes
COC/Labels Agree	Yes
Proper Cont/Preservation checked	Yes
Sufficient Sample Volume	Yes
Samples Within Holdtime	Yes
Cooler Temp Within Limits	Yes
VOA Water Vials Received	Yes
VOA Water Vials/Zero Headspace	Yes
PM or Client Contacted	No

COMMENTS

CLD 11/9/17

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-103455-1
Client Project/Site: Municipal Site - Perchlorate Testing

For:
Environmental Monitoring and Technologie
8100 North Austin Avenue
Morton Grove, Illinois 60053

Attn: Mr. Jason Cristino

Betsy Sara

Authorized for release by:
11/17/2017 3:26:06 PM

Betsy Sara, Project Manager II
(303)736-0189
betsy.sara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Response to RFI 1
CWLP - 03255
TestAmerica Denver
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Definitions/Glossary

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Job ID: 280-103455-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Environmental Monitoring and Technologies

Project: Municipal Site - Perchlorate Testing

Report Number: 280-103455-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The samples were received on 11/10/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.3 C.

Holding Times

All holding times were within established control limits.

Method Blank

All Method Blank results were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Sample recoveries were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited a recovery outside control limits for Perchlorate Method 6860. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and/or MSD recoveries were within established control limits.

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Detection Summary

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Client Sample ID: AP-1 — Lab Sample ID: 280-103455-1

No Detections.

Client Sample ID: AP-2 — Lab Sample ID: 280-103455-2

No Detections.

Client Sample ID: AP-3 — Lab Sample ID: 280-103455-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.088	J	4.0	0.0040	ug/L	1		6860	Total/NA

Client Sample ID: AP-4 — Lab Sample ID: 280-103455-4

No Detections.

Client Sample ID: AP-5 — Lab Sample ID: 280-103455-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.31	J	4.0	0.0040	ug/L	1		6860	Total/NA

Client Sample ID: AW-3 — Lab Sample ID: 280-103455-6

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Method	Method Description	Protocol	Laboratory
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Electronic Filing: Received, Clerk's Office 01/29/2020

Sample Summary

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-103455-1	AP-1	Water	11/09/17 11:15	11/10/17 08:40
280-103455-2	AP-2	Water	11/09/17 10:20	11/10/17 08:40
280-103455-3	AP-3	Water	11/09/17 09:30	11/10/17 08:40
280-103455-4	AP-4	Water	11/09/17 12:35	11/10/17 08:40
280-103455-5	AP-5	Water	11/09/17 11:25	11/10/17 08:40
280-103455-6	AW-3	Water	11/09/17 10:00	11/10/17 08:40

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Client Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Client Sample ID: AP-1
Date Collected: 11/09/17 11:15
Date Received: 11/10/17 08:40
Lab Sample ID: 280-103455-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.0040	ug/L			11/14/17 15:55	1

Client Sample ID: AP-2
Date Collected: 11/09/17 10:20
Date Received: 11/10/17 08:40
Lab Sample ID: 280-103455-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.0040	ug/L			11/14/17 16:16	1

Client Sample ID: AP-3
Date Collected: 11/09/17 09:30
Date Received: 11/10/17 08:40
Lab Sample ID: 280-103455-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.088**	**J**	4.0	0.0040	ug/L			11/14/17 16:21	1

Client Sample ID: AP-4
Date Collected: 11/09/17 12:35
Date Received: 11/10/17 08:40
Lab Sample ID: 280-103455-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.0040	ug/L			11/14/17 16:26	1

Client Sample ID: AP-5
Date Collected: 11/09/17 11:25
Date Received: 11/10/17 08:40
Lab Sample ID: 280-103455-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.31**	**J**	4.0	0.0040	ug/L			11/14/17 16:31	1

Client Sample ID: AW-3
Date Collected: 11/09/17 10:00
Date Received: 11/10/17 08:40
Lab Sample ID: 280-103455-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.0040	ug/L			11/14/17 16:36	1

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QC Sample Results

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-395260/13
Matrix: Water
Analysis Batch: 395260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.0040	ug/L			11/14/17 15:19	1

Lab Sample ID: DLCK 280-395260/12
Matrix: Water
Analysis Batch: 395260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0507		ug/L		101	70 - 130

Lab Sample ID: LCS 280-395260/14
Matrix: Water
Analysis Batch: 395260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0510	J	ug/L		102	70 - 130

Lab Sample ID: 280-103523-E-1 MS
Matrix: Water
Analysis Batch: 395260

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	7800	J F1	2500	10600	J	ug/L		114	70 - 130

Lab Sample ID: 280-103523-E-1 MSD
Matrix: Water
Analysis Batch: 395260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	7800	J F1	2500	11200	J F1	ug/L		137	70 - 130	5	15

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QC Association Summary

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

LCMS

Analysis Batch: 395260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-103455-1	AP-1	Total/NA	Water	6860	
280-103455-2	AP-2	Total/NA	Water	6860	
280-103455-3	AP-3	Total/NA	Water	6860	
280-103455-4	AP-4	Total/NA	Water	6860	
280-103455-5	AP-5	Total/NA	Water	6860	
280-103455-6	AW-3	Total/NA	Water	6860	
MB 280-395260/13	Method Blank	Total/NA	Water	6860	
DLCK 280-395260/12	Lab Control Sample	Total/NA	Water	6860	
LCS 280-395260/14	Lab Control Sample	Total/NA	Water	6860	
280-103523-E-1 MS	Matrix Spike	Total/NA	Water	6860	
280-103523-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	6860	

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Lab Chronicle

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Client Sample ID: AP-1
Date Collected: 11/09/17 11:15
Date Received: 11/10/17 08:40

Lab Sample ID: 280-103455-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6860		1			395260	11/14/17 15:55	HKF	TAL DEN

Client Sample ID: AP-2
Date Collected: 11/09/17 10:20
Date Received: 11/10/17 08:40

Lab Sample ID: 280-103455-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6860		1			395260	11/14/17 16:16	HKF	TAL DEN

Client Sample ID: AP-3
Date Collected: 11/09/17 09:30
Date Received: 11/10/17 08:40

Lab Sample ID: 280-103455-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6860		1			395260	11/14/17 16:21	HKF	TAL DEN

Client Sample ID: AP-4
Date Collected: 11/09/17 12:35
Date Received: 11/10/17 08:40

Lab Sample ID: 280-103455-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6860		1			395260	11/14/17 16:26	HKF	TAL DEN

Client Sample ID: AP-5
Date Collected: 11/09/17 11:25
Date Received: 11/10/17 08:40

Lab Sample ID: 280-103455-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6860		1			395260	11/14/17 16:31	HKF	TAL DEN

Client Sample ID: AW-3
Date Collected: 11/09/17 10:00
Date Received: 11/10/17 08:40

Lab Sample ID: 280-103455-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6860		1			395260	11/14/17 16:36	HKF	TAL DEN

Laboratory References:
TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Accreditation/Certification Summary

Client: Environmental Monitoring and Technologie
Project/Site: Municipal Site - Perchlorate Testing

TestAmerica Job ID: 280-103455-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	200017	04-30-18

Analysis Method	Prep Method	Matrix	Analyte

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6666
FAX: 847-967-6735
www.emt.com

Chain of Custody Record

TURNARAOUND TIME:
☐ RUSH
____ day turnaround
☒ ROUTINE

Due Date: ____-____-____ COC #: 137706

Company: Environmental Monitoring & Technologies
Address: 8100 Austin Ave
Morton Grove, IL 60053

Phone #: (847) 967-6666 Fax #: (____) ____-____
P.O. #: 60941 Proj.#: ____-____
Client Contact: Matt Gregory
Project ID / Location: City Water Light & Power CWLP

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater ____

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag ____

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H_2SO_4 5. HCl 8. Other
3. HNO_3 6. MeOH ____

Analyses

EMT USE ONLY

EMT WORKORDER #____

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Temp.	Preservation Field	Preservation Lab	6860 - Perchlorate *
AP-1	7	125ml	P	1	CD	11/9/17	1115	6.89	59.4	1		X
AP-2	7	125ml	P	1	CD	11/9/17	1020	6.78	61.8	1		X
AP-3	7	125ml	P	1	CD	11/9/17	0930	6.95	59.9	1		X
AP-4	7	125ml	P	1	SS	11/9/17	1235	7.12	60.4	1		X
AP-5	7	125ml	P	1	SS	11/9/17	1125	7.19	56.1	1		X
AW-3	7	125ml	P	1	SS	11/9/17	1000	6.92	56.2	1		X

280-103455 Chain of Custody

Relinquished By: Cubbie Duncan	Date: 11-9-17 Time: 14:45	Received By: Reed Ro	Date: 11-10-17 Time: 08:40	EMT USE ONLY Client Code: CWLP
Relinquished By:	Date: - - Time: :	Received By:	Date: - - Time: :	EMT Project I.D. 4Q17 GW Sampling
Relinquished By:	Date: - - Time: :	Received For Lab By:	Date: - - Time: :	Jar Lot No.

☐ SAMPLE RECEIVED ON ICE
☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: * Must Meet reporting Limit of 0.0049 mg/L *

2.9 ICB 5.0.4 Transfer RP 11-10-17

EMTFIELDDOC2014001

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Electronic Filing: Received, Clerk's Office 01/29/2020

Login Sample Receipt Checklist

Client: Environmental Monitoring and Technologie

Job Number: 280-103455-1

Login Number: 103455
List Number: 1
Creator: Pottruff, Reed W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 08/28/2017

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NELAC NARRATIVE PAGE

Client: Environmental Monitoring Technologies Report #: 402671NP

Eurofins Eaton Analytical, Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: James Van Fleit

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

Method 548.1

Note: The SS-2,4-Dichlorophenylacetic acid recovery (2%) in sample 17K0134-02 was outside the acceptance limits of 54-125%.

There were no additional quality control failures.

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Jim Van Fleit ASM 12/04/2017

Authorized Signature Title Date

Electronic Filing: Received, Clerk's Office 01/29/2020

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 402671
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3820127	17K0134-01	548.1	11/09/17 10:00	Client	11/14/17 09:45
3820128	17K0134-02	548.1	11/09/17 11:15	Client	11/14/17 09:45
3820129	17K0134-03	548.1	11/09/17 10:20	Client	11/14/17 09:45
3820130	17K0134-04	548.1	11/09/17 09:30	Client	11/14/17 09:45
3820131	17K0134-05	548.1	11/09/17 12:35	Client	11/14/17 09:45
3820132	17K0134-06	548.1	11/09/17 11:25	Client	11/14/17 09:45

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

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Jim Van Fleit ASM

Authorized Signature | Title

12/04/2017

Date

Client Name: Environmental Monitoring Technologies
Report #: 402671

Electronic Filing: Received, Clerk's Office 01/29/2020

Client Name: Environmental Monitoring Technologies Report #: 402671

Sampling Point: 17K0134-01 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	11/16/17 08:15	11/16/17 17:22	3820127

Sampling Point: 17K0134-02 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	11/16/17 08:15	11/16/17 17:38	3820128

Sampling Point: 17K0134-03 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	11/16/17 08:15	11/16/17 17:53	3820129

Sampling Point: 17K0134-04 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	11/16/17 08:15	11/16/17 18:09	3820130

Sampling Point: 17K0134-05 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	11/16/17 08:15	11/16/17 18:25	3820131

Sampling Point: 17K0134-06 PWS ID: Not Supplied

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
145-73-3	Endothall	548.1	100 *	9.0	< 9.0	ug/L	11/16/17 08:15	11/16/17 18:41	3820132

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

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Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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330705

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17K0134

402671

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins-Eaton (Underwriters), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

Analysis	Due – Standard	Expires	Laboratory ID / Comments
AW-3			3820127
Sample ID: 17K0134-01 Water	**Sampled:11/09/17 10:00**		
~~Radiation Testing, Subcontracted~~	12/01/17 23:59	12/09/17 10:00	~~PO #: 60940 for Radium 226 and 228~~
EPA 548.1 Endothall (1)	12/01/17 23:59	11/16/17 10:00	PO #: 60952 for Endothal
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t‹ 32 oz HDPE, 1:1 HNO3 t‹ 44 ml VOA vial (N)			
AP-1			3820128
Sample ID: 17K0134-02 Water	**Sampled:11/09/17 11:15**		
~~Radiation Testing, Subcontracted~~	12/01/17 23:59	12/09/17 11:15	~~PO #: 60940 for Radium 226 and 228~~
EPA 548.1 Endothall (1)	12/01/17 23:59	11/16/17 11:15	PO #: 60952 for Endothal
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t‹ 32 oz HDPE, 1:1 HNO3 t‹ 44 ml VOA vial (N)			
AP-2			3820129
Sample ID: 17K0134-03 Water	**Sampled:11/09/17 10:20**		
~~Radiation Testing, Subcontracted~~	12/01/17 23:59	12/09/17 10:20	~~PO #: 60940 for Radium 226 and 228~~
EPA 548.1 Endothall (1)	12/01/17 23:59	11/16/17 10:20	PO #: 60952 for Endothal
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t‹ 32 oz HDPE, 1:1 HNO3 t‹ 44 ml VOA vial (N)			
AP-3			3820130
Sample ID: 17K0134-04 Water	**Sampled:11/09/17 09:30**		
~~Radiation Testing, Subcontracted~~	12/01/17 23:59	12/09/17 09:30	~~PO #: 60940 for Radium 226 and 228~~
EPA 548.1 Endothall (1)	12/01/17 23:59	11/16/17 09:30	PO #: 60952 for Endothal
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t‹ 32 oz HDPE, 1:1 HNO3 t‹ 44 ml VOA vial (N)			
AP-4			3820131
Sample ID: 17K0134-05 Water	**Sampled:11/09/17 12:35**		
~~Radiation Testing, Subcontracted~~	12/01/17 23:59	12/09/17 12:35	~~PO #: 60940 for Radium 226 and 228~~
EPA 548.1 Endothall (1)	12/01/17 23:59	11/16/17 12:35	PO #: 60952 for Endothal
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 t‹ 32 oz HDPE, 1:1 HNO3 t‹ 44 ml VOA vial (N)			

PO # 60952 for 6 Endothal samples (Radium in 3rd Shipment)

Cross Off on COC by Client

Released By	Date	Received By	Date
	11/13/17		11-14-17 0945
Released By	Date	Received By	Date

Client Provided Sample Container

2°C

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SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17K0134

Analysis	Due - Standard	Expires	Comments
AP-5			
Sample ID: 17K0134-06 Water	**Sampled: 11/09/17 11:25**	3820132	
~~Radiation Testing, Subcontracted~~	12/01/17 23:59	12/09/17 11:25	~~PO #: 60940 for Radium 226 and 228~~
EPA 548.1 Endothall (1)	12/01/17 23:59	11/16/17 11:25	PO #: 60952 for Endothal
Containers Supplied:			
32 oz HDPE, 1:1 HNO3 to 32 oz HDPE, 1:1 HNO3 to 44 ml VOA vial (N)			

Cross Off on COC by Client

Client Provided Sample Container

Released By	Date	Received By	Date
	11/13/17		11-14-17 0945
Released By	Date	Received By	Date

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 08/28/2017

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LABORATORY CASE NARRATIVE

Client: Environmental Monitoring Technologies Report #: 402715QC

All method QC was within acceptance limits, with the exception of:

Method 7500-Ra B

Note: Radium-226 results for sample sites 17K0134-01, 17K0134-03 and 17K0134-05 are potentially low biased due to poor matrix resulting in high barium carrier recovery in the samples.

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Jennifer Van Kuiken ASM 12/04/2017

Authorized Signature Title Date

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Environmental Monitoring Technologies

Attn: Matt Gregory
8100 North Austin Avenue
Morton Grove, IL 60053

Report: 402715
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3820334	17K0134-01	7500-Ra B	11/09/17 10:00	Client	11/14/17 09:45
3820334	17K0134-01	7500-Ra D	11/09/17 10:00	Client	11/14/17 09:45
3820335	17K0134-02	7500-Ra B	11/09/17 11:15	Client	11/14/17 09:45
3820335	17K0134-02	7500-Ra D	11/09/17 11:15	Client	11/14/17 09:45
3820336	17K0134-03	7500-Ra B	11/09/17 10:20	Client	11/14/17 09:45
3820336	17K0134-03	7500-Ra D	11/09/17 10:20	Client	11/14/17 09:45
3820337	17K0134-04	7500-Ra B	11/09/17 09:30	Client	11/14/17 09:45
3820337	17K0134-04	7500-Ra D	11/09/17 09:30	Client	11/14/17 09:45
3820338	17K0134-05	7500-Ra B	11/09/17 12:35	Client	11/14/17 09:45
3820338	17K0134-05	7500-Ra D	11/09/17 12:35	Client	11/14/17 09:45
3820339	17K0134-06	7500-Ra B	11/09/17 11:25	Client	11/14/17 09:45
3820339	17K0134-06	7500-Ra D	11/09/17 11:25	Client	11/14/17 09:45

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call James Van Fleit at (574) 233-4777.

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Jim Van Fleit ASM

Authorized Signature | Title

12/04/2017

Date

Client Name: Environmental Monitoring Technologies
Report #: 402715

Electronic Filing: Received, Clerk's Office 01/29/2020

Client Name: Environmental Monitoring Technologies Report #: 402715

Sampling Point: 17K0134-01 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.090	1.0	**0.62 ± 0.18**	pCi/L	11/16/17 08:30	11/28/17 12:11	3820334
15262-20-1	Radium-228	7500-Ra D	---	0.49	1.0	**0.86 ± 0.51**	pCi/L	11/16/17 08:30	11/20/17 18:52	3820334
---	Combined Radium	calc.	5 *	0.49	1.0	**1.48 ± 0.54**	pCi/L	11/16/17 08:30	11/28/17 12:11	3820334

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17K0134-02 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.11	1.0	**0.89 ± 0.23**	pCi/L	11/16/17 08:30	11/28/17 12:11	3820335
15262-20-1	Radium-228	7500-Ra D	---	0.53	1.0	**1.1 ± 0.6**	pCi/L	11/16/17 08:30	11/20/17 18:52	3820335
---	Combined Radium	calc.	5 *	0.53	1.0	**1.99 ± 0.61**	pCi/L	11/16/17 08:30	11/28/17 12:11	3820335

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17K0134-03 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.10	1.0	**0.37 ± 0.15**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820336
15262-20-1	Radium-228	7500-Ra D	---	0.76	1.0	**1.5 ± 0.8**	pCi/L	11/16/17 08:30	11/20/17 18:52	3820336
---	Combined Radium	calc.	5 *	0.76	1.0	**1.87 ± 0.81**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820336

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17K0134-04 PWS ID: Not Supplied

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.11	1.0	**0.41 ± 0.16**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820337
15262-20-1	Radium-228	7500-Ra D	---	0.67	1.0	**0.99 ± 0.69**	pCi/L	11/16/17 08:30	11/20/17 18:52	3820337
---	Combined Radium	calc.	5 *	0.67	1.0	**1.40 ± 0.71**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820337

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

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Client Name: Environmental Monitoring Technologies Report #: 402715

Sampling Point: 17K0134-05 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.090	1.0	**0.69 ± 0.19**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820338
15262-20-1	Radium-228	7500-Ra D	---	0.46	1.0	**1.3 ± 0.5**	pCi/L	11/16/17 08:30	11/20/17 18:52	3820338
---	Combined Radium	calc.	5 *	0.46	1.0	**1.99 ± 0.55**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820338

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

Sampling Point: 17K0134-06 PWS ID: Not Supplied

Radionuclides										
Analyte ID #	Analyte	Method	Reg Limit	MDA 95**	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
13982-63-3	Radium-226	7500-Ra B	---	0.10	1.0	**1.3 ± 0.3**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820339
15262-20-1	Radium-228	7500-Ra D	---	0.48	1.0	**1.9 ± 0.6**	pCi/L	11/16/17 08:30	11/20/17 18:52	3820339
---	Combined Radium	calc.	5 *	0.48	1.0	**3.2 ± 0.6**	pCi/L	11/16/17 08:30	11/28/17 13:17	3820339

** Minimum Detectable Activity (MDA95) shall be that concentration which can be counted with a precision of plus or minus 100% at the 95 % confidence level.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Electronic Filing: Received, Clerk's Office 01/29/2020

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Table of Contents

33050 F

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

17K0134

402715

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
8100 Austin Ave
Morton Grove, IL 60053
Phone: 847-324-3327
Fax: 847.967.6735
Project Manager: Matt Gregory (mgregory@emt.com)

RECEIVING LABORATORY:

Eurofins-Eaton (Underwriters), Subcontract
110 South Hill St (Now Eurofins Eaton Analytical)
South Bend, IN 46617-
Phone :(574) 233-4777
Fax: (847) 407-1916

Analysis	Due = Standard Turn	Expires	Laboratory ID	Comments
AW-3				
Sample ID: 17K0134-01 **Water**	**Sampled:11/09/17 10:00**		3280334	
Radiation Testing, Subcontracted	~~12/01/17 23:59~~	12/09/17 10:00		PO #: 60940 for Radium 226 and 228 (2)
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t			
AP-1				
Sample ID: 17K0134-02 **Water**	**Sampled:11/09/17 11:15**		335	
Radiation Testing, Subcontracted	~~12/01/17 23:59~~	12/09/17 11:15		PO #: 60940 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t			
AP-2				
Sample ID: 17K0134-03 **Water**	**Sampled:11/09/17 10:20**		336	
Radiation Testing, Subcontracted	~~12/01/17 23:59~~	12/09/17 10:20		PO #: 60940 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t			
AP-3				
Sample ID: 17K0134-04 **Water**	**Sampled:11/09/17 09:30**		337	
Radiation Testing, Subcontracted	~~12/01/17 23:59~~	12/09/17 09:30		PO #: 60940 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t			
AP-4				
Sample ID: 17K0134-05 **Water**	**Sampled:11/09/17 12:35**		338	
Radiation Testing, Subcontracted	~~12/01/17 23:59~~	12/09/17 12:35		PO #: 60940 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t			
AP-5				
Sample ID: 17K0134-06 **Water**	**Sampled:11/09/17 11:25**		339	
Radiation Testing, Subcontracted	~~12/01/17 23:59~~	12/09/17 11:25		PO #: 60940 for Radium 226 and 228
Containers Supplied:				
32 oz HDPE, 1:1 HNO3 t	32 oz HDPE, 1:1 HNO3 t			

PO # 60940 for 6 samples for Radium 226 and 228.

Cross Off on COC by Client

Released By	Date	Received By	Date
	11/13/17		11/14/17 0945
Released By	Date	Received By	Date
Liters Received = 2 each site		55/11/4/17	

Client Provided Sample Container

Attachment K

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

cy: PJ Christine

217/785-0561

February 20, 2014

CERTIFIED MAIL # 7011 1150 0001 0861 4228
RETURN RECEIPT REQUESTED

J. Michael Houston
800 East Monroe Street
Municipal Center West
Springfield, IL 62701

Re: Violation Notice: SPRINGFIELD – CITY WATER, LIGHT, AND POWER
Facility No.: IL1671200
Violation Notice No.: W-2014-00002

Dear Mr. Houston:

This constitutes a Violation Notice pursuant to Section 31(a)(1) of the Illinois Environmental Protection Act ("Act"), 415 ILCS 5/31(a)(1), and is based upon a review of available information and an investigation by representatives of the Illinois Environmental Protection Agency ("Illinois EPA").

The Illinois EPA hereby provides notice of alleged violations of environmental laws, regulations, or permits as set forth in Attachment A to this notice. Attachment A includes an explanation of the activities that the Illinois EPA believes may resolve the specified alleged violations, including an estimate of a reasonable time period to complete the necessary activities. Due to the nature and seriousness of the alleged violations, please be advised that resolution of the violations may also require the involvement of a prosecutorial authority for purposes that may include, among others, the imposition of statutory penalties.

A written response, which may include a request for a meeting with representatives of the Illinois EPA, must be submitted via certified mail to the Illinois EPA within 45 days of receipt of this letter. If a meeting is requested, it shall be held within 60 days of receipt of this notice. The response must include information in rebuttal, explanation, or justification of each alleged violation and a statement indicating whether or not the facility wishes to enter into a Compliance Commitment Agreement ("CCA") pursuant to Section 31(a) of the Act. If the facility wishes to enter into a CCA, the written response must also include proposed terms for the CCA that includes dates for achieving each commitment and may include a statement that compliance has been achieved for some or all of the alleged violations. The proposed terms of the CCA should contain sufficient detail and must include steps to be taken to achieve compliance and the necessary dates by which compliance will be achieved.

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The Illinois EPA will review the proposed terms for a CCA provided by the facility and, within 30 days of receipt, will respond with either a proposed CCA or a notice that no CCA will be issued by the Illinois EPA. If the Illinois EPA sends a proposed CCA, the facility must respond in writing by either agreeing to and signing the proposed CCA or by notifying the Illinois EPA that the facility rejects the terms of the proposed CCA.

If a timely written response to this Violation Notice is not provided, it shall be considered a waiver of the opportunity to respond and meet, and the Illinois EPA may proceed with referral to a prosecutorial authority.

Written communications should be directed to:

Illinois EPA – Division of Public Water Supplies
Attn: Andrea Rhodes, CAS #19
P.O. BOX 19276
Springfield, IL 62794-9276

All communications must include reference to this Violation Notice number, W-2014-00002.

Questions regarding this Violation Notice should be directed to Andrea Rhodes at 217/785-0561.

Sincerely,

Michael Crumly
Manager, Compliance Assurance Section
Division of Public Water Supplies
Bureau of Water

Attachments

cc: Sue Corcoran

BOW ID: W1678050005

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ATTACHMENT A

SPRINGFIELD CITY WATER, LIGHT, AND POWER, IL1671200
VIOLATION NOTICE NO. W-2014-00002:

Questions regarding the violations identified in this attachment should be referred to Andrea Rhodes at (217) 785-0561.

A review of information available to the Illinois EPA indicates the following violations of statutes, regulations, or permits. Included with each type of violation is an explanation of the activities that the Illinois EPA believes may resolve the violation including an estimated time period for resolution.

Groundwater Quality

No person shall cause, threaten or allow the release of any contaminant to a resource groundwater such that: treatment or additional treatment is necessary to continue an existing use or to assure a potential use of such groundwater; or an existing or potential use of such groundwater is precluded. No person shall cause, threaten or allow the release of any contaminant to groundwater so as to cause a groundwater quality standard to be exceeded. City Water, Light, and Power must take actions to mitigate existing contamination and prevent the continuing release of contaminants into the environment.

Violation Description

Operations at ash impoundments have resulted in violations of the Groundwater Quality Standards at monitoring well AP-1R for the following constituents:

Parameter	Sample Value	GW Standard	Collection Date
Boron	18.9 mg/L	2.0 mg/L	11/20/2013
Boron	14.7 mg/L	2.0 mg/L	08/28/2013
Boron	7.76 mg/L	2.0 mg/L	05/23/2013
Boron	3.9 mg/L	2.0 mg/L	02/21/2013
Boron	4.3 mg/L	2.0 mg/L	11/28/2012
Boron	15.2 mg/L	2.0 mg/L	08/23/2012
Boron	10.4 mg/L	2.0 mg/L	04/25/2012
Boron	14.6 mg/L	2.0 mg/L	02/22/2012
Sulfate	581 mg/L	400 mg/L	11/20/2013
Sulfate	597 mg/L	400 mg/L	08/28/2013
Sulfate	603 mg/L	400 mg/L	05/23/2013
Sulfate	506 mg/L	400 mg/L	02/21/2013
Sulfate	488 mg/L	400 mg/L	11/28/2012
Sulfate	469 mg/L	400 mg/L	08/23/2012
Sulfate	463 mg/L	400 mg/L	04/25/2012
Sulfate	521 mg/L	400 mg/L	02/22/2012
TDS	1250 mg/L	1200 mg/L	11/20/2013
TDS	1380 mg/L	1200 mg/L	08/28/2013
TDS	1390 mg/L	1200 mg/L	05/23/2013

Rule/Reg. Section 12 of the Act, 415 ILCS 5/12, 35 Ill. Adm. Code 620.115, 620.301, 620.401, 620.405, and 620.410.

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ATTACHMENT A

SPRINGFIELD CITY WATER, LIGHT, AND POWER, IL1671200
VIOLATION NOTICE NO. W-2014-00002:

Violation Description

Operations at ash impoundments have resulted in violations of the Groundwater Quality Standards at monitoring well AP-2 for the following constituents:

Parameter	Sample Value	GW Standard	Collection Date
Boron	2.63 mg/L	2.0 mg/L	06/01/2010

Rule/Reg. Section 12 of the Act, 415 ILCS 5/12, 35 Ill. Adm. Code 620.115, 620.301, 620.401, 620.405, and 620.410.

Violation Description

Operations at ash impoundments have resulted in violations of the Groundwater Quality Standards at monitoring well AP-2R for the following constituents:

Parameter	Sample Value	GW Standard	Collection Date
Boron	4.78 mg/L	2.0 mg/L	11/20/2013
Boron	5.46 mg/L	2.0 mg/L	08/28/2013
Boron	5.01 mg/L	2.0 mg/L	05/23/2013
Boron	10.0 mg/L	2.0 mg/L	02/21/2013
Boron	6.24 mg/L	2.0 mg/L	11/28/2012
Boron	6.88 mg/L	2.0 mg/L	08/24/2012
Boron	5.51 mg/L	2.0 mg/L	04/25/2012
Boron	5.0 mg/L	2.0 mg/L	02/22/2012

Rule/Reg. Section 12 of the Act, 415 ILCS 5/12, 35 Ill. Adm. Code 620.115, 620.301, 620.401, 620.405, and 620.410.

Violation Description

Operations at ash impoundments have resulted in violations of the Groundwater Quality Standards at monitoring well AP-3 for the following constituents:

Parameter	Sample Value	GW Standard	Collection Date
Boron	20.6 mg/L	2.0 mg/L	11/20/2013
Boron	21.3 mg/L	2.0 mg/L	08/28/2013
Boron	18.7 mg/L	2.0 mg/L	05/23/2013
Boron	29.1 mg/L	2.0 mg/L	02/21/2013
Boron	8.03 mg/L	2.0 mg/L	11/28/2012
Boron	20.9 mg/L	2.0 mg/L	08/24/2012
Boron	18.4 mg/L	2.0 mg/L	04/25/2012

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ATTACHMENT A

SPRINGFIELD CITY WATER, LIGHT, AND POWER, IL1671200
VIOLATION NOTICE NO. W-2014-00002:

Violation
Description
AP-3 continued

Parameter	Sample Value	GW Standard	Collection Date
Boron	17.7 mg/L	2.0 mg/L	02/22/2012
Boron	11.9 mg/L	2.0 mg/L	06/01/2010

Rule/Reg. Section 12 of the Act, 415 ILCS 5/12, 35 Ill. Adm. Code 620.115, 620.301, 620.401, 620.405, and 620.410.

Attachment L

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR

August 3, 2011

RECEIVED
AUG = 4 2011
ENVIRONMENTAL HEALTH & SAFETY

Sue Corcoran
City Water, Light, and Power
Environmental Affairs
7th and Monroe Street
Springfield, Illinois 62757

Re: Ash Impoundment Groundwater Monitoring Report
City Water, Light, and Power – NPDES Permit No. IL0024767

Dear Ms. Corcoran:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the groundwater quality data from June 2010. Initial groundwater monitoring data at the City Water, Light, and Power Plant shows elevated levels of boron, manganese, arsenic, and iron at monitoring wells located downgradient from the ash storage impoundments. The Illinois EPA requests a meeting to further discuss groundwater quality conditions at the site. Please contact us within 15 days of the date of this letter, to schedule a meeting.

Thank you for your attention to these matters. If you have any questions concerning this letter, please contact Bill Buscher or Carl Kamp of the Hydrogeology and Compliance Unit at 217-785-4787.

Sincerely,

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

CC: Bill Buscher
Darin LeCrone
Carl Kamp
Springfield Regional IEPA
Records

Rockford • 4302 N. Main St., Rockford, IL 61103 • (815) 987-7760
Elgin • 595 S. State, Elgin, IL 60123 • (847) 608-3131
Bureau of Land – Peoria • 7620 N. University St., Peoria, IL 61614 • (309) 693-5462
Collinsville • 2009 Mall Street, Collinsville, IL 62234 • (618) 346-5120
Des Plaines • 9511 W. Harrison St., Des Plaines, IL 60016 • (847) 294-4000
Peoria • 5415 N. University St., Peoria, IL 61614 • (309) 693-5463
Champaign • 2125 S. First St., Champaign, IL 61820 • (217) 278-5800
Marion • 2309 W. Main St., Suite 116, Marion, IL 62959 • (618) 993-7200

Printed on Recycled Paper

Response to 1st RTP
CWLP - 01173

Attachment M

Electronic Filing: Received, Clerk's Office 01/29/2020

OFFICE OF PUBLIC UTILITIES
CITY OF SPRINGFIELD, ILLINOIS

J. MICHAEL HOUSTON, MAYOR

VIA CERTIFIED MAIL

April 2, 2014

Ms. Andrea Rhodes
Mr. Michael Crumly
Illinois Environmental Protection Agency
Division of Public Water Supplies, CAS #19
P.O. Box 19276
Springfield, IL 62794-9276

Re: Violation Notice No.: W-2014-00002
Facility No.: IL 1671200
(Springfield—City Water, Light & Power)

Dear Ms. Rhodes and Mr. Crumly,

This is written on behalf of the City of Springfield, Office of Public Utilities, City Water, Light & Power (CWLP) regarding the above-referenced Violation Notice (VN) received by Mayor Houston on February 25, 2014.

The VN alleges that operations at CWLP's ash impoundments have resulted in exceedances of Groundwater Quality Standards in four (4) groundwater monitoring wells; more particularly that the Groundwater Quality Standard for boron has been exceeded in four (4) of these wells, and that one (1) well (AP-1R) also has exceeded the Groundwater Quality Standards for Sulfate and for TDS for sampling conducted by CWLP in 2012 and 2013. Boron is alleged to have exceeded the standard of 2.0 mg/L in well AP-2 with a sample value of 2.63 mg/L once (1x) in 2010. Well AP-2R is alleged to have eight (8) exceedances for boron in 2012 and 2013, with well AP-3 alleged to have eight (8) exceedances for boron in 2012 and 2013, and one in 2010.

As you know, these monitoring wells were voluntarily installed and sampled, and the results submitted to the Agency by CWLP pursuant to a groundwater monitoring plan voluntarily filed with the IEPA for approval (and approved) pursuant to the Agency's request to CWLP as part of its Ash Impoundment Strategy. CWLP engaged Andrews Engineering, Inc., which designed a plan to characterize the local hydrogeologic conditions specific to the impoundments, evaluate the potential for migration from the impoundments and identify potable water supply wells within 2,500 feet of the impoundments. Results were submitted to the Agency in August 2010 (with no potable water supply wells found within 2,500 feet). Thereafter, Andrews proposed locations for the installation of an additional background well, replacement of two downgradient wells, and collection of data and derivation of statistical background concentrations for groundwater quality evaluation, which was submitted and approved by the Agency, with statistical derivation of background concentrations underway. However, when

several parameters in an upgradient well exhibited significant decreasing trends during background sampling events, it was determined that utilizing these data would artificially elevate the background concentrations, and since the groundwater quality in that well did not stabilize, additional quarterly data were being collected. Once statistically valid data were collected, revised background concentrations were planned to be submitted to the Agency.

CWLP appreciates the Agency's efforts both before the VN and in the future to work with CWLP toward an acceptable and as cost-effective solution as possible to the issue of groundwater exceedances, which appear to have resulted from CWLP's operation of its ash impoundments, consistent with the steps of a scientific process to ensure that the groundwater and hydrogeologic conditions are properly investigated and assessed, to determine appropriate mitigation activities. As explained above, CWLP had been voluntarily engaged with the Agency in that process when the VN was issued.

Toward that end and consistent with Section 31(a)(2) of the Environmental Protection Act (Act), CWLP proposes and hopes to enter into a Compliance Commitment Agreement (CCA) with the Agency (as suggested in more detail below) and requests a meeting with the Agency to discuss the VN and CWLP's CCA proposal. As you know, CWLP has been participating in the rulemaking proceeding underway before the Illinois Pollution Control Board (IPCB) that would formalize a process for ash impoundment assessments for the protection of groundwater. CWLP's CCA proposal takes into consideration our Groundwater Monitoring Program already approved by the Agency and the steps that have been underway, proposing additional investigation in a manner that we hope would not require CWLP to engage in unnecessary costly duplicative consulting services once the regulations in R14-10 become final. CWLP notes that the VN did not set forth suggested mitigation activities or a suggested timeline toward compliance, and therefore suggests the next steps as follows:

Proposed CCA: Complete additional activities to investigate and assess the extent of concentrations exceeding the applicable standards and/or the background concentrations to the groundwater, based on available and ongoing groundwater monitoring results, potentially addressing the conditions in 35 Ill. Adm. Code 620.250. Within 45 days of the Agency's acceptance of CWLP's CCA, CWLP will submit an approvable assessment monitoring plan to the Agency for review which defines the subject activities.

- The approvable assessment monitoring plan will identify what parameters must be tested, by identifying the constituents of concern (COC).
- CWLP expects that the assessment monitoring plan would require approximately 8-10 Geoprobe borings located along the periphery of the specific affected monitoring wells, which may include areas across the creek (north and/or west).
- Discreet groundwater samples will be collected and analyzed from each borehole for each COC.
- One-inch piezometers may also be placed in borings where such data are deemed necessary or relevant for possible subsequent work.
- The next steps depend upon the results of these tasks; another phase of such activities may be necessary if the extent of elevated concentrations has not been determined.

Therefore, further steps or the timetable for additional activities is difficult to set forth, until the extent is determined.

Pursuant to Section 31 of the Act and the VN, because of the complexity of the issues presented, CWLP requests to meet with the Illinois EPA. CWLP reserves its right under Section 31 to amend or add to this response, following our meeting with the Illinois EPA. Please contact me with suggested dates to meet. I can be reached at: (217)789-2116 (ext. 2628) or at: Christine.zeman@cwlp.com. Thank you.

Sincerely,

Christine Zeman
Regulatory Affairs Director

Cy: PJ Becker
Sue Corcoran

Attachment N

Electronic Filing: Received, Clerk's Office 01/29/2020

OFFICE OF PUBLIC UTILITIES
CITY OF SPRINGFIELD
MUNICIPAL BUILDING, SPRINGFIELD, ILLINOIS 62757
(217) 789-2060

CWLP: Small Enough To Care

April 15, 1994

Illinois Environmental Protection Agency
Division of Water Pollution Control
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-9276

Attention: Bob Moser

RE: City Water, Light & Power
NPDES Permit IL0024767

Dear Mr. Moser:

Attached are sections of a report prepared to evaluate and compare the ecological and water quality impacts of Boron discharged by City Water, Light & Power (CWLP) into Sugar Creek. This report will support a petition for an adjusted standard and to achieve compliance with Special Condition 13 of CWLP's current NPDES permit.

Based on these calculations, CWLP is proposing adjusted standards for Boron of 11.0 mg/l from Outfall 003 to SMSD and Sugar Creek station Outfall 008; then 5.5 mg/l from Outfall 008 to the confluence of Sugar Creek with South Fork and the Sangamon River and 2.0 mg/l from this confluence to 100 yards below the confluence of Spring Creek with Sangamon River, North of Springfield.

Should you have any questions or require further information, please contact myself or Sue Corcoran, of my staff, at 217/786-4080.

Sincerely,

S. David Farris
Environmental, Health & Safety Manager

SDF:SC:gj

- Wallen, et al. (1957) studied mosquito fish (*Gambusia affinis)*, which are native to Illinois, using 96-hour bioassay procedures. No mortalities were observed in concentrations of boric acid up to 1,800 mg/L (315 mg/L calculated as boron).

- Birge and Black (1977) studied the effects of boron exposures to channel catfish fry using a 9-day bioassay procedure. An LC_{50} value of 155 mg/L was determined for both borax and boric acid.

- Eisler (1990) indicated that 30 and 33 mg/L of boron are "safe" levels for game fish species such as the largemouth bass and bluegill; and

- Sensitive fish species such as freshwater coho (which are not present in the Sangamon River basin) show adverse effects with exposure to 113 mg/L of boron (Thompson, et al., 1976).

The above studies, done on a diverse list of aquatic organisms, demonstrate the response to boron of three aquatic trophic levels: plant, invertebrate, and vertebrate (fish). Evaluation of the overall effect of a compound on a biological system must include a study of the effects on the lowest tier of the food chain. These studies demonstrate that adverse effects on an aquatic food chain, and consequently the biological community structure of an aquatic ecosystem, would not be observed at or below a boron concentration of 11.0 mg/L. Overall, the results indicate that the Sugar Creek-Sangamon River biological community would not be significantly affected by the 11.0 mg/L boron stream standard proposed for the upper portion of Sugar Creek.

4.3 Boron Concentrations in Receiving Waters

4.3.1 Historic Boron Levels

Table 4.1 summarizes boron concentrations at nine monitoring locations within the local drainage area of the Sangamon River watershed (Figures 3.1, 3.3, and 3.4). Monitoring data from the Sugar Creek, South Fork, and Sangamon River locations are collected by the IEPA as part

Suppl. Resp. to 2nd RTP
CWLP - 27135

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TABLE 4.1

Total Boron Concentrations (mg/l) For Monitoring Stations

Date	Lake Springfield Water Intake	CWLP Outfall 003	CWLP Outfall 004	Sugar Creek @ Rt. 29 Bridge (EOA-01)	SMSD Spring Creek Sewage Treatment Plant Outfall - 007	SMSD Sugar Creek Sewage Treatment Plant Outfall - 008	Sangamon River @ Riverton, IL (E26)	Sangamon River @ Roby, IL (E16)	S. Fork of Sangamon River @ Rt. 29 Bridge (EO-01)
1/87			5.20	0.95			0.07	<0.05	0.06
2/87			4.60						
3/87			6.20	0.93			0.07	<0.05	0.07
4/87			2.70	1.03			0.16	0.07	0.05
5/87	<0.05		2.40	0.78			0.08	0.06	0.05
6/87				3.89			0.40	<0.05	0.16
7/87									
8/87			5.89	6.28			0.37	<0.05	<0.05
9/87			8.37	7.50			1.20	0.20	<0.05
10/87			8.10						
11/87				4.36			0.79	0.19	0.11
12/87				4.20			0.13	0.06	<0.05
1/88				6.20			0.06	<0.05	<0.05
2/88			4.17						
3/88			5.82	0.38			<0.05	<0.05	<0.05
4/88			3.95	0.28			<0.05	<0.05	<0.05
5/88	<0.05		5.31	3.90			0.20	<0.09	0.07
6/88			6.10	5.46			1.12	0.14	0.08
7/88									
8/88			7.67	7.80			1.82	0.20	0.15
9/88			10.19	7.48			1.17	0.25	0.12
10/88			6.38				1.48	0.20	
11/88				5.54			0.60	0.24	0.10
12/88			6.49	1.97			0.23	0.21	0.05
1/89			6.02	2.10			0.14	0.18	0.06
2/89			7.30	1.22			0.19	0.15	0.10
3/89		6.88	7.00						
4/89		7.52	5.40	1.12		0.38	0.08	<0.05	<0.05
5/89	0.24	7.13	5.31	4.77		0.73	0.10	0.05	<0.05
6/89		9.69	7.52	5.67	0.37	0.82	0.25	0.05	0.06
7/89		8.75	7.21	6.47	0.41	0.85			
8/89		16.86	6.13		0.44	0.82	0.87	0.12	0.10
9/89		18.70	7.93	5.04	0.39	0.51	0.35	0.08	0.09
10/89		3.30			0.61	0.94			
11/89		3.14	4.84	4.65	0.39	0.48	0.84	0.17	0.09
12/89				0.99	0.43	0.95	0.32	0.16	0.20

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TABLE 4.1 (Continued)

Date	Lake Springfield Water Intake	CWLP Outfall 003	CWLP Outfall 004	Sugar Creek @ Rt. 29 Bridge (EOA-01)	SMSD Spring Creek Sewage Treatment Plant Outfall - 007	SMSD Sugar Creek Sewage Treatment Plant Outfall - 008	Sangamon River @ Riverton, IL (E26)	Sangamon River @ Roby, IL (E16)	S. Fork of Sangamon River @ Rt. 29 Bridge (EO-01)
1/90		4.17	5.67	1.74	0.87	1.51	0.36	0.15	0.16
2/90		2.17	9.63		0.41	0.56			
3/90		1.85	8.99	1.65	0.63	0.81	<0.05	<0.05	<0.05
4/90		3.58	4.85	4.69	0.44	0.49	0.19	<0.05	0.08
5/90	0.03	4.31	4.08	0.31	0.30	0.35	0.06	<0.05	<0.05
6/90		2.18	5.97			0.57			
7/90				0.59		0.84	0.07	<0.05	0.07
8/90	0.01	0.48	6.90	3.60	0.32	0.30	0.21	<0.05	<0.05
9/90				4.84	0.39	0.36	0.68	0.15	0.08
10/90		1.60	8.60		0.35	0.34			
11/90				5.21	0.34	0.33	0.08	0.06	0.07
12/90		0.90	7.70	0.43		0.30	0.05	<0.05	<0.05
1/91				0.48	0.26	0.30	0.05	<0.05	0.08
2/91		0.18	6.70		0.28	0.28			
3/91			3.00	3.66	0.20	0.26	0.10	<0.05	<0.05
4/91				0.80	0.17	0.21	0.10	0.05	0.05
5/91	<0.05			0.28	0.22	0.27	0.02	<0.05	<0.05
6/91		0.44	7.30		0.24	0.25			
7/91		0.75	7.80	4.15	0.25	0.24	1.11	0.11	0.10
8/91		0.06	1.80	5.43	0.54	0.62			0.09
9/91				5.80	0.30	0.28	0.55	0.22	0.08
10/91		1.30		<0.05	0.32	0.31	0.99		
11/91					0.26	0.31		0.18	
12/91				4.70	0.31	0.33	0.10	0.07	
1/92		0.53	7.10	4.40	0.30	0.28	0.15	0.07	
2/92					0.33	0.29			
3/92			9.30	5.20	0.28	0.26	0.15	0.04	
4/92		0.44	4.70		0.28	0.28			
5/92		6.90			0.26	0.26			
6/92	0.06	8.00	6.00		0.23	0.22			
7/92		1.90	6.70		0.22	0.20			
8/92		7.60	7.20		0.26				
9/92		7.10	6.30		0.23				
10/92			5.50		0.23				

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TABLE 4.1 (Continued)

Totals	Lake Springfield Water Intake	CWLP Outfall 003	CWLP Outfall 004	Sugar Creek @ Rt. 29 Bridge (EOA-01)	SMSD Spring Creek Sewage Treatment Plant Outfall - 007	SMSD Sugar Creek Sewage Treatment Plant Outfall - 008	Sangamon River @ Riverton, IL (E26)	Sangamon River @ Roby, IL (E16)	S. Fork of Sangamon River @ Rt. 29 Bridge (EO-01)
Average	<0.07	4.51	6.12	<3.38	0.34	0.47	<0.39	<0.10	<0.08
Maximum	0.24	18.70	10.19	7.80	0.87	1.51	1.82	0.25	0.20
Minumum	0.01	0.06	1.80	<0.05	0.17	0.20	<0.05	<0.05	<0.05
No. of Values	7	31	50	47	38	40	47	47	43
% of Samples Above 1.0 mg/l	0	71	100	74.5	0	2.5	12.8	0	0
% of Samples Above 1.10 mg/l	0	6.4	0	0	0	0	0	0	0

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of the Ambient Water Quality Monitoring Network (AWQMN) sampling program. These data are published in the annual U.S. Geological Survey Water Resource Data Reports for Illinois. The Lake Springfield boron data are collected annually by CWLP as part of the city water supply intake monitoring program. The boron data for the CWLP 003 and 004 outfalls (Figure 2.1) and Springfield Metropolitan Sanitary District (SMSD) Sugar Creek sewage treatment plant (STP) outfall 008 and the SMSD Spring Creek STP outfall 007 are collected as part of their required NPDES permit monitoring (see Table 3.2). No boron data are available for the CWLP 006 outfall which discharges into Lake Springfield.

The South Fork monitoring station (EO-01) at the Illinois Route 29 bridge and the Sangamon River station (E16) at Roby, Illinois serve as upstream control locations to assess any influence on boron levels in these streams from the stations shown in Table 4.1. These upstream stations had average boron levels of 0.08 mg/L and 0.10 mg/L, respectively, and have never exceeded the General Water Use standard of 1.0 mg/L for boron during the period of record shown. The maximum boron level for the Sangamon River at Roby was 0.25 mg/L.

The CWLP outfalls show the highest levels of boron for all locations shown. This is not unexpected because coal and coal ash are well known sources of naturally-occurring boron. For the period shown, outfall 003 averaged 4.51 mg/L for boron. Outfall 003 had a minimum recorded boron level of 0.06 mg/L and a maximum boron value of 18.70 mg/L in September 1989. Outfall 004 boron levels ranged from 1.80 mg/L to 10.19 mg/L and averaged 6.12 mg/L. The maximum values for 004 occurred in September of 1988, during an extended drought.

The only AWQMN sampling station on Sugar Creek downstream of Spaulding Dam is EOA-01 at the Illinois Route 29 bridge. This station is about 3.4 stream miles downstream from outfall 004. For the sampling period shown, boron levels ranged from <0.05 mg/L to 7.80 mg/L. The maximum occurred in August during the 1988 summer drought. Station EOA-01 averaged <3.38 mg/L for the reporting period. The average and maximum boron values for EOA-01 are significantly higher than for the upstream South Fork and Sangamon River control stations. The boron levels for the upstream Lake Springfield (average <0.07 mg/L) could not be contributing to the Sugar Creek boron levels observed at EOA-01.

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The Sangamon River station E26 at Riverton is downstream of all AWQMN stations shown in Table 4.1. During the sampling period shown, the boron levels at E26 ranged from <0.05 mg/L to 1.82 mg/L. The maximum level occurred in August during the 1988 summer drought. The average boron level of <0.39 mg/L at E26 is 3.9 times higher than the average boron value for the upstream Sangamon station E16 at Roby. These two stations were sampled in the same months during the same time span. Outfall 008 from the SMSD sewage treatment plant averages 0.47 mg/L boron in its discharge to Sugar Creek. This outfall would contribute only to a minor extent to the boron levels seen at Riverton.

Table 4.1 shows the percentage of samples from each monitoring station that had boron levels above the General Water Use standard of 1.0 mg/L. The upstream stations E16 and EO-01 had no samples with boron levels above 1.0 mg/L. Boron levels for the Lake Springfield samples were never above 1.0 mg/L. Only 2.5 percent of the SMSD sewage treatment plant outfall 008 discharges into Sugar Creek exceeded 1.0 mg/L boron, whereas 74.5 percent of the Sugar Creek samples from station EOA-01 were above the 1.0 mg/L boron standard.

The boron levels at EOA-01 on Sugar Creek are clearly influenced by CWLP outfall discharges 003 and 004 into Sugar Creek. These outfall discharges appear to be the primary sources of boron flowing from Sugar Creek into the Sangamon River and subsequently influencing the boron levels observed at the Riverton station E26.

When comparing the maximum boron levels from the locations shown in Table 4.1 to the proposed boron stream standard of 11.0 mg/L for the upper reach of Sugar Creek, only the CWLP outfall 003 had samples above 11.0 mg/L. Outfall 003 had two samples (6.4 percent) with boron above 11.0 mg/L, with no other occurrences since September 1989. Except for very infrequent events such as these, outfall discharges 003 and 004 would normally be in compliance with adjusted boron stream standards of 11.0 mg/L for the upper reach of Sugar Creek, 5.5 mg/L for the lower reach of Sugar Creek, and 2.0 mg/L for the reach of the Sangamon River in question.

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4.3.2 Predicted Low-Flow Boron Levels

A mass balance of boron concentrations was calculated for several locations in Sugar Creek and the Sangamon River. The purpose of the calculations was to provide boron values that might be expected during critical low stream flow conditions (7Q10). The 7Q10 flow is the lowest mean stream discharge for seven consecutive days at the ten-year recurrence interval.

The equation used in all of these calculations is:

$$Cds = \frac{Qus\ (Cus) + Qeff\ (Ceff)}{Qus + Qeff}$$

where:

Cds =	the boron concentration in mg/L downstream of the confluence of the effluent and the receiving stream.
Qus =	the water flow in cubic ft/sec. (cfs) upstream of the effluent discharge point.
Cus =	the boron concentration upstream of the effluent discharge point in mg/L.
Qeff =	the flow in cfs of the effluent discharge.
Ceff =	the boron concentration (mg/L) of the effluent.

The following assumptions were made in determining whether the boron concentration in Sugar Creek and the Sangamon River would fall below the 1.0 mg/L General Use standard.

- The average of the maximum flows for outfalls 003 and 004 for 1988 were used. This year was used due to the hot weather, which increased electricity consumption and water flow from the plant.

- The design flow of the outfall for St. Francis Convent was used (Table 3.2).

- For the Springfield and Riverton wastewater treatment plants, the average flows of the lowest three consecutive months within the last two years were used.

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- The "effluent" was any stream or flow entering another stream or flow. For example, the confluence of the South Fork, Sangamon River and Sugar Creek was assumed to occur at a single point, necessitating expansion of the equation to include three flows. The results are the same as if Sugar Creek and the South Fork were first combined and then the Sangamon River was included.

- Since the 7Q10 flow of Sugar Creek is 0.0 cfs, the flows from outfalls 003 and 004 were used as the only source of water in Sugar Creek. Under actual conditions other than 7Q10, flow may also be derived from Lake Springfield. This assumption is more conservative since it does not allow dilution of the boron concentrations in Sugar Creek from flow from Lake Springfield.

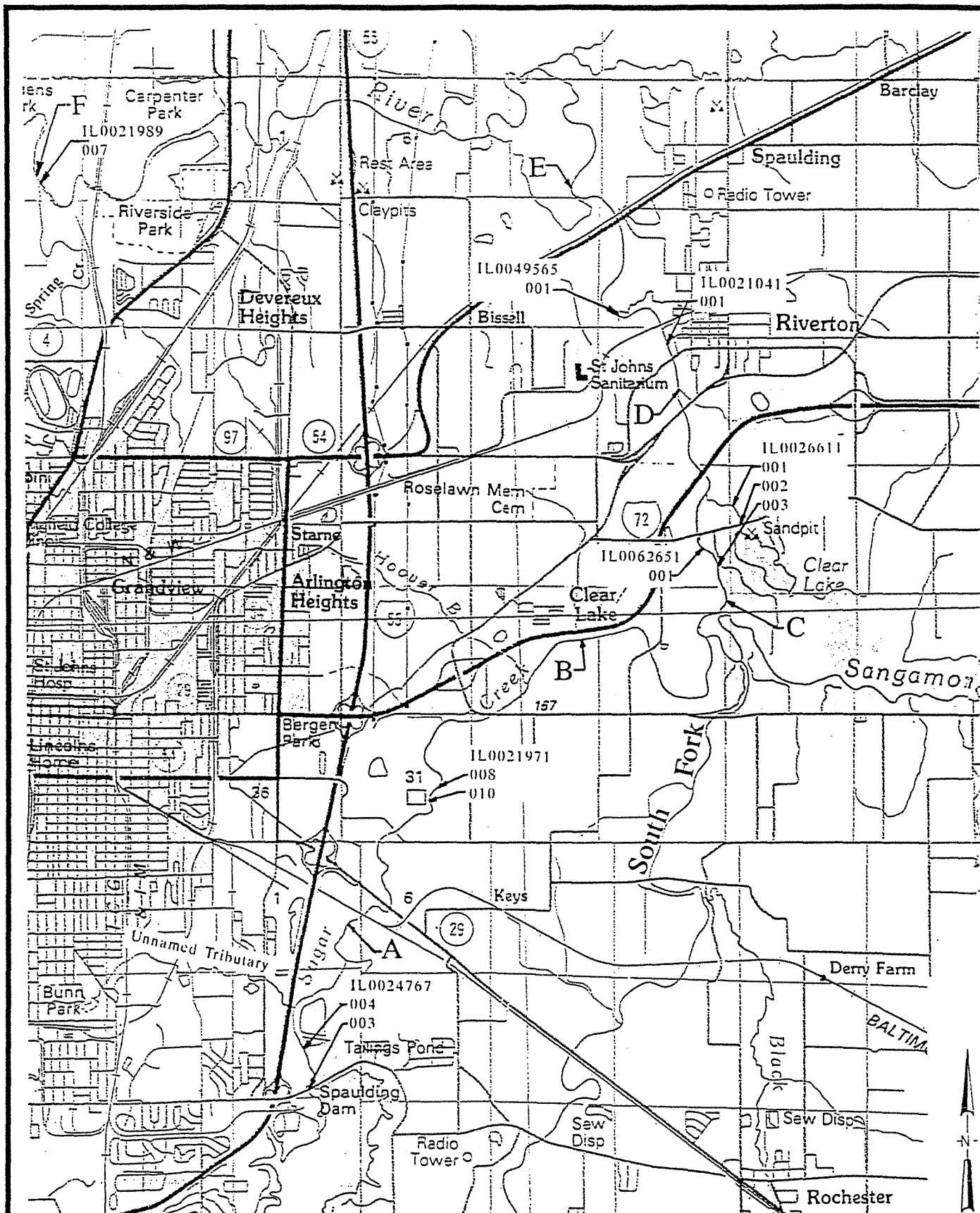
- The average boron concentrations were used for all "effluents" other than outfalls 003 and 004.

Figure 4.1 shows NPDES effluent points and the locations for which predicted boron concentrations were calculated. Table 4.2 gives the flow values and boron concentrations used in the calculations. The following predicted values present the most realistic worst-case scenario for boron concentrations in Sugar Creek and the Sangamon River.

Location (See Figure 4.1)	Boron Concentration (mg/L)	Flow (cfs)
A	10.46	8.15
B	5.06	17.75
C	1.53	61.45
D	1.53	61.66
E	1.52	61.91
F	1.22	83.41

The calculations suggest that with present effluent flows and boron concentrations, boron levels in Sugar Creek and the Sangamon River as far downstream as location F would not be expected to fall below the 1.0 mg/L General Use standard during 7Q10 flows. Even though the Sangamon River may show boron levels below 1.0 mg/L during periods of "average" flow

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LOCATIONS FOR CALCULATED BORON VALUES

HANSON ENGINEERS INCORPORATED

TECHNICAL SUPPORT DOCUMENT FOR PETITION FOR ADJUSTED BORON STANDARDS FOR SUGAR CREEK AND THE SANGAMON RIVER

Job No. 92S5034A

Figure 4-1

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TABLE 4.2

BORON CONCENTRATIONS AND FLOW RATES

	Location							
	003	004	007	008	South Fork (EO-01)	Sangamon River (E16)	St. Francis Convent	Riverton MSD
Q	0.26	7.89	21.5	9.6	1.1	42.6	0.21	0.25
C	18.70	10.19	0.34	0.47	0.08	0.1	0.40	0.40

Q = Flow value in cubic ft per second (cfs)

C = Boron concentration in mg/L

volume due to dilution factors, Sugar Creek would still be expected to have boron concentrations above 1.0 mg/L. Although the calculation for location F, downstream of the outfall 007 of SMSD's Spring Creek station, predicts a worst-case boron concentration of 1.22 mg/L, no excursions above the 1.0 mg/L General Use standard have been recorded at the downstream Petersburg sampling station. Overland flow and the contribution of small, intermittent, streams between 007 and the Petersburg sampling point probably dilute the boron concentration below the 1.0 mg/L standard.

Sampling at station E26 in the Sangamon River shows that excursions above the 1.0 mg/L standard do occur. However, most of the excursions occurred in 1988, when CWLP was operating at higher than normal levels. The calculated values are very similar to the actual sample values. At location D, the calculated boron value was 1.53 mg/L and the maximum boron sample concentration was 1.82 mg/L at E26 in August 1988.

As shown in Table 4.1, the percentage of samples with boron above 11.0 mg/L for outfalls 003 and 004 was 6.4 and 0.0, respectively. The frequency of occurrence for location A to reach the calculated maximum boron level of 10.46 mg/L would be very low. The maximum boron levels of 18.70 mg/L for outfall 003 and 10.19 mg/L for outfall 004 were used in the calculations. Only the 18.70 mg/L sample and one other boron sample (16.86 mg/L) for outfall 003 were at such an elevated level. No values for 004 were above 11.0 mg/L. All other values for 003 and 004 were below 9.7 mg/L, which would yield a calculated boron value below 10.0 mg/L at location A. Adding to the low chances of occurrence of boron above 11.0 mg/L at location A is the low probability of outfalls 003 and 004 simultaneously discharging their historic maximum boron levels.

In light of these calculations, CWLP could normally comply with adjusted standards for boron of: 11.0 mg/L from outfall 003 to SMSD's Sugar Creek station outfall 008; an adjusted standard of 5.5 mg/L from outfall 008 to the confluence of Sugar Creek with the South Fork and the Sangamon River; and an adjusted standard of 2.0 mg/L from this confluence to 100 yds below the confluence of Spring Creek with the Sangamon River, north of Springfield.