ANNUAL and QUARTERLY GROUNDWATER MONITORING REPORT
WAUKEGAN GENERATING STATION

Ms. Andrea Rhodes
Illinois Environmental Protection Agency
Division of Public Water Supplies
MC#19
1021 North Grand Avenue East
Springfield, IL 62794-9276

January 19, 2017

VIA FEDERAL EXPRESS

Re: Annual and Quarterly Groundwater Monitoring Results – Fourth Quarter 2016
Waukegan Generating Station – Ash Impoundments
Compliance Commitment Agreement VN W-2012-00056; ID# 6281

Dear Ms. Rhodes:

The fourth quarterly groundwater sampling for 2016 has been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Waukegan Generating Station in accordance with the Compliance Commitment Agreement (CCA) with Illinois Environmental Protection Agency (IEPA) dated October 24, 2012. This quarterly monitoring report summarizes the results of the monitoring event and is also intended to serve as the Annual Report and includes historical data analysis/summaries. It is noted that parameter list modifications per the newly issued Permit No. 2016-EB-61340 Special Condition #4 will be initiated in the first quarter 2017 as this change was not communicated by the KPRG and Associates, Inc. (sampling contractor) project manager to the field sampling crew and analytical laboratory. The timing of the new sampling protocol was discussed with Mr. Darin LeCrone and Mr. Lynn Dunaway of IEPA on January 17, 2017, both of which agreed that the sampling could commence in the first quarter of 2017 and this should not impact understanding of existing conditions..

Well Inspection and Sampling Procedures

The groundwater monitoring network around the ash ponds at this facility consists of seven wells (MW-01 through MW-07) as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels were obtained using an electronic water level meter (see summary of water level discussion below). Wells MW-01 through MW-04 have been modified during the fourth quarter from flush mount to stick-ups with protector casings as part of dike reconstruction activities. The top of casings were resurveyed as part of the well modifications. Wells

Comp. Ex. 269P

MW-05 through MW-07 are completed with stick-up protector casings. The wells were found in good condition with locked protector casings and the concrete surface seals were intact.

Groundwater samples at well locations MW-01 through MW-07 were collected using the low-flow sampling technique.

The groundwater monitoring samples were analyzed for the inorganic compounds listed in Illinois Administrative Code (IAC) 620.410(a), 620.410(d) and 620.410(e), excluding radium 226/228.

Groundwater Flow Evaluation

Water level data from the most recent round of sampling along with historical water levels obtained from each well are summarized in Table 1. The water levels from the most recent sampling were used to generate a groundwater flow map which is provided on Figure 2. The water elevation data indicates a general east to southerly flow of groundwater in the vicinity of the ash ponds. Relative to an annual evaluation of groundwater levels, a historical hydrograph is presented in Attachment 1.

Summary of Analytical Data

A copy of the analytical data package is provided in Attachment 2. The field parameter and analytical data from the most recent sampling, along with the previous eight quarters of data, are summarized in Table 2. A duplicate sample was inadvertently collected from well MW-08 which is not part of the CCA monitoring program. The duplicate data, however, was consistent with the investigative sample collected from that well, within an acceptable range (+/- 30%). All wells for which the sampling data reports a value above one or more groundwater standards are located within the area of the approved Environmental Land Use Control (ELUC).

Relative to an annual evaluation of the water chemistry data, time versus concentration curves are provided in Attachment 3 for each parameter analyzed. The curves include the Class I drinking water standard for reference, where appropriate.

As noted previously, all wells for which the sampling data reports a value above one or more applicable groundwater standards are located within the area of the approved ELUC.

If there are any questions, please contact either Sharene Shealey of NRG Energy at 815-372-4625 or Richard Gnat of KPRG at 262-781-0475.

Sincerely,

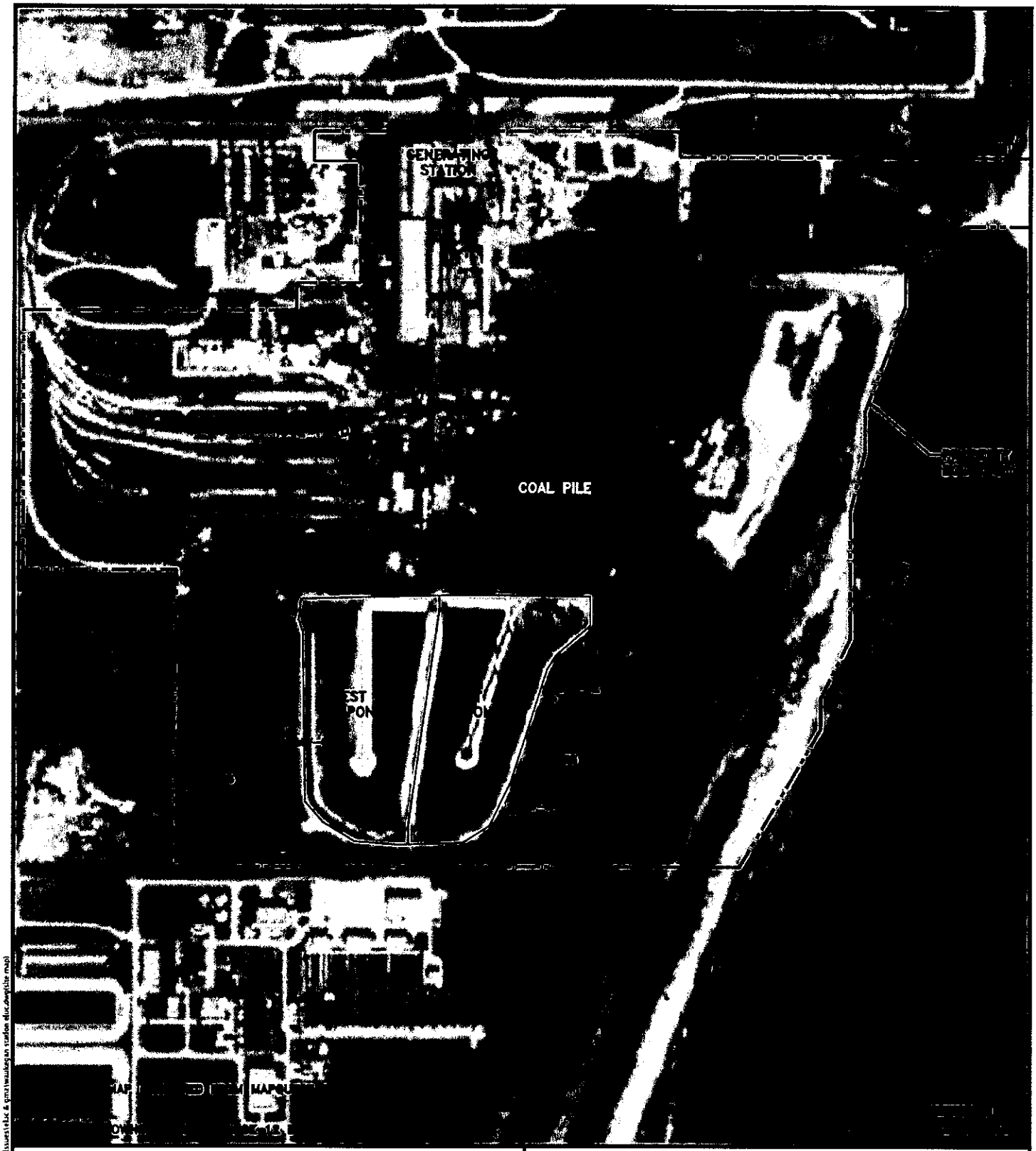
Todd Mundorf

Operations Manager

Attachments

cc: William Buscher, IEPA
Darin LeCrone, IEPA
Fred Veenbaas, NRG Energy
Sharene Shealey, NRG Energy
Richard Gnat, KPRG and Associates, Inc.

FIGURES



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

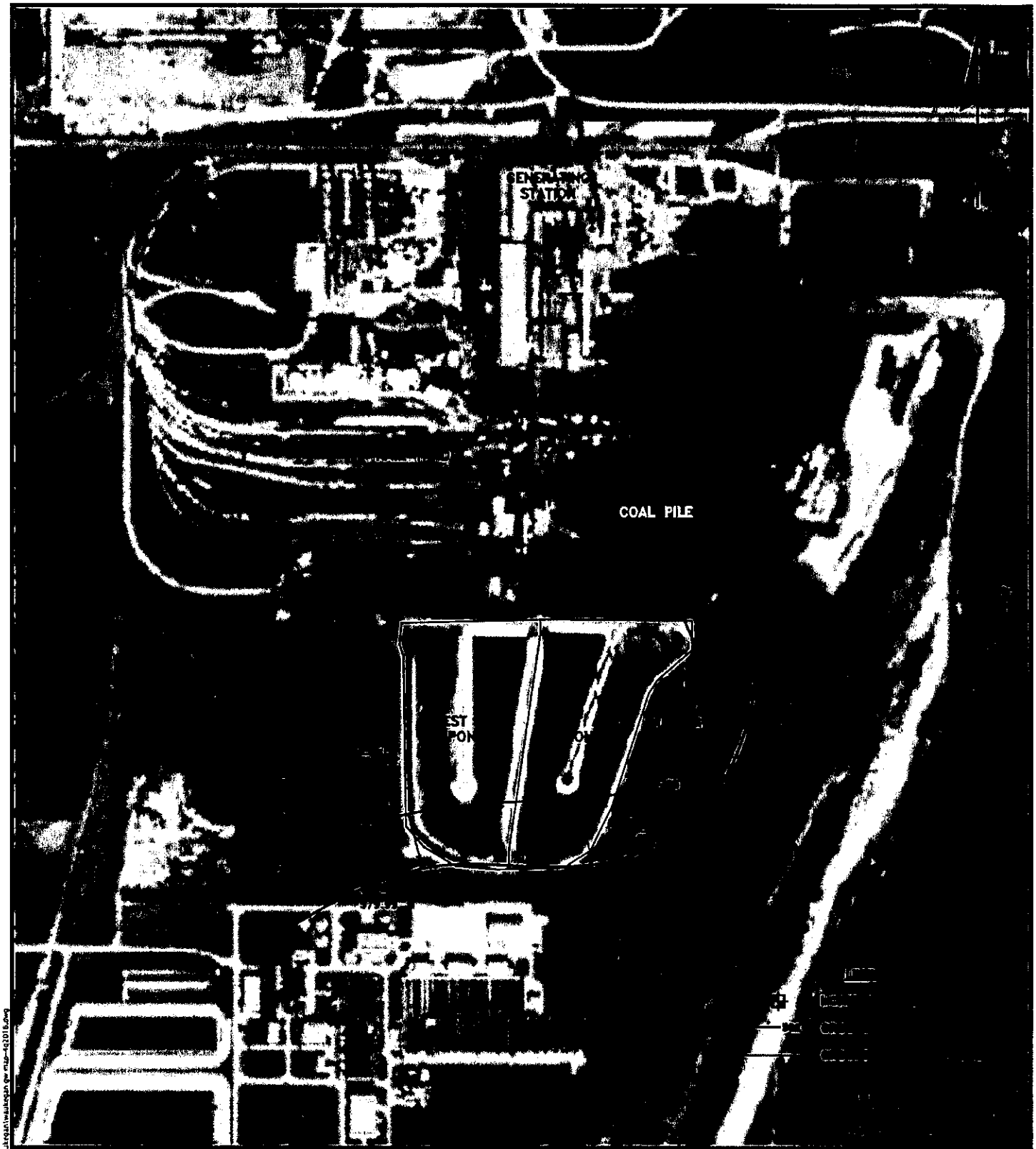
SITE MAP

WAUKEGAN STATION
WAUKEGAN, ILLINOIS

Scale: 1" = 500'	Date: January 23, 2015
KPRG Project No. 12313.2	FIGURE 1

MW013-15-58434

W:\c-ddp\projects\midwest generation\ash pond issues\dwg & gmz\waukegan station dtc dwg\site map)



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GROUNDWATER CONTOUR MAP 11/2016

WAUKEGAN STATION
WAUKEGAN, ILLINOIS

Scale: 1" = 500' | Date: December 19, 2016

KPRG Project No. 12313.2 | FIGURE 2

TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-01	11/6/2014	603 14	603 46	582 01	582 01	571 30	21 13	21 13	31 84
	2/17/2015	603 14	603 46	582 42	582 43	571 30	20 72	20 71	31 84
	4/21/2015	603 14	603 46	583 65	583 64	571 30	19 49	19 50	31 84
	8/12/2015	603 14	603 46	582 47	582 47	571 30	20 67	20 67	31 84
	11/2/2015	603 14	603 46	582 39	582 39	571 30	20 75	20 75	31 84
	2/29/2016	603 12	603 37	582 41	582 41	571 28	20 71	20 71	31 84
	5/2/2016	603 12	603 37	582 23	582 25	571 28	20 89	20 87	31 84
	8/23/2016	603 12	603 37	581 11	580 98	571 28	22 01	22 14	31 84
	12/2/2016	603 62	600 22	581 35	581 38	571 78	22 27	22 24	31 84
MW-02	11/6/2014	603 04	603 28	581 91	581 91	573 48	21 13	21 13	29 56
	2/17/2015	603 04	603 28	582 21	582 21	573 48	20 83	20 83	29 56
	4/21/2015	603 04	603 28	583 54	583 54	573 48	19 50	19 50	29 56
	8/12/2015	603 04	603 28	582 40	582 38	573 48	20 64	20 66	29 56
	11/2/2015	603 04	603 28	582 33	582 34	573 48	20 71	20 70	29 56
	2/29/2016	603 04	603 32	582 45	582 45	573 48	20 59	20 59	29 56
	5/2/2016	603 04	603 32	582 22	582 26	573 48	20 82	20 78	29 56
	8/23/2016	603 04	603 32	581 00	580 86	573 48	22 04	22 18	29 56
	12/2/2016	603 39	599 86	581 26	581 28	573 83	22 13	22 11	29 56
MW-03	11/6/2014	602 90	603 18	581 97	581 98	573 10	20 93	20 92	29 80
	2/17/2015	602 90	603 18	582 22	582 22	573 10	20 68	20 68	29 80
	4/21/2015	602 90	603 18	583 56	583 53	573 10	19 34	19 37	29 80
	8/12/2015	602 90	603 18	582 48	582 47	573 10	20 42	20 43	29 80
	11/2/2015	602 90	603 18	582 53	582 39	573 10	20 37	20 51	29 80
	2/29/2016	602 91	603 19	582 48	582 48	573 11	20 43	20 43	29 80
	5/2/2016	602 91	603 19	582 25	582 25	573 11	20 66	20 66	29 80
	8/23/2016	602 91	603 19	580 79	580 73	573 11	22 12	22 18	29 80
	12/2/2016	603 70	600 48	581 18	581 21	573 90	22 52	22 49	29 80
MW-04	11/6/2014	603 15	603 53	581 86	581 88	573 57	21 29	21 27	29 58
	2/17/2015	603 15	603 53	582 14	582 14	573 57	21 01	21 01	29 58
	4/21/2015	603 15	603 53	583 56	583 55	573 57	19 59	19 60	29 58
	8/12/2015	603 15	603 53	582 32	582 33	573 57	20 83	20 82	29 58
	11/2/2015	603 15	603 53	582 32	582 29	573 57	20 83	20 86	29 58
	2/29/2016	603 19	603 53	582 49	582 46	573 61	20 70	20 73	29 58
	5/2/2016	603 19	603 53	582 25	582 25	573 61	20 94	20 94	29 58
	8/23/2016	603 19	603 53	580 50	580 46	573 61	22 69	22 73	29 58
	12/2/2016	603 17	599 77	580 99	580 98	573 59	22 18	22 19	29 58
MW-05	11/5/2014	604 84	601 53	582 54	582 55	572 92	22 30	22 29	31 92
	2/17/2015	604 84	601 53	582 38	582 38	572 92	22 46	22 46	31 92
	4/20/2015	604 84	601 53	584 15	584 15	572 92	20 69	20 69	31 92
	8/13/2015	604 84	601 53	583 20	583 21	572 92	21 64	21 63	31 92
	11/2/2015	604 84	601 53	583 17	583 14	572 92	21 67	21 70	31 92
	2/29/2016	604 84	601 56	583 25	583 25	572 92	21 59	21 59	31 92
	5/2/2016	604 84	601 56	583 20	583 18	572 92	21 64	21 66	31 92
	8/23/2016	604 84	601 56	581 02	581 56	572 92	23 82	23 28	31 92
	12/2/2016	604 84	601 56	581 94	581 98	572 92	22 90	22 86	31 92
MW-06	11/5/2014	589 73	586 75	582 92	582 91	572 03	6 81	6 82	17 70
	2/18/2015	589 73	586 75	583 39	583 39	572 03	6 34	6 34	17 70
	4/20/2015	589 73	586 75	583 87	583 88	572 03	5 86	5 85	17 70
	8/12/2015	589 73	586 75	583 29	583 28	572 03	6 44	6 45	17 70
	11/2/2015	589 73	586 75	583 32	583 27	572 03	6 41	6 46	17 70
	2/29/2016	590 00	587 04	583 57	583 57	572 30	6 43	6 43	17 70
	5/2/2016	590 00	587 04	583 80	583 73	572 30	6 20	6 27	17 70
	8/23/2016	590 00	587 04	581 81	581 81	572 30	8 19	8 19	17 70
	12/2/2016	590 00	587 04	582 79	582 87	572 30	7 21	7 13	17 70
MW-07	11/5/2014	598 29	595 87	581 39	581 40	570 39	16 90	16 89	27 90
	2/17/2015	598 29	595 87	581 14	581 14	570 39	17 15	17 15	27 90
	4/20/2015	598 29	595 87	584 02	584 01	570 39	14 27	14 28	27 90
	8/12/2015	598 29	595 87	582 35	582 35	570 39	15 94	15 94	27 90
	11/2/2015	598 29	595 87	582 33	582 23	570 39	15 96	16 06	27 90
	2/29/2016	598 27	595 98	582 53	582 55	570 37	15 74	15 72	27 90
	5/2/2016	598 27	595 98	582 44	582 44	570 37	15 83	15 83	27 90
	8/23/2016	598 27	595 98	579 66	579 63	570 37	18 61	18 64	27 90
	12/2/2016	598 27	595 98	579 99	580 00	570 37	18 28	18 27	27 90

Note: Values for Depth to Bottom of Well are from prior to the installation of the dedicated pumps

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-01	Date	11/6/2014		2/17/2015		4/21/2015		8/12/2015		11/2/2015		3/1/2016		5/4/2016		8/23/2016		12/5/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND ^	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 21	0 0010	0 050	0 0010	0 056	0 0010	0 034	0 0010	0 073	0 0010	0 12	0 0010	0 11	0 0010	0 12	0 0010	0 15
Barium	2 0	0 0025	0 0094	0 0025	0 018	0 0025	0 020	0 0025	0 019	0 0025	0 020	0 0025	0 029	0 0025	0 016	0 0025	0 015	0 0025	0 014
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^
Boron	2 0	0 50	2 2	0 25	1 7	0 050	1 5	0 25	1 2	0 50	1 7	0 50	1 9	0 25	2 1	0 50	2 1	0 050	1 9
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	70	2 0	54	2 0	52	2 0	64	2 0	69	2 0	62	2 0	59	2 0	62	2 0	65
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	0 0024	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND ^	0 0020	ND	0 0020	ND ^
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	0 013	0 010	0 010	0 010	0 012	0 010	0 029	0 010	0 030	0 010	0 015
Fluoride	4 0	0 10	0 56	0 10	0 21	0 10	0 18	0 10	0 42	0 10	0 43	0 10	0 29	0 10	0 29	0 10	0 26	0 10	0 34
Iron	5 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND^	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 0054	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	0 24	0 10	ND	0 10	ND	0 10	ND	0 10	0 17	0 10	ND	0 10	0 12	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	0 41	0 10	0 26	0 10	ND	0 10	ND	0 10	0 17	0 10	ND ^	0 10	0 12	0 10	ND
Nitrogen/Nitrite	NA	0 020	0 078	0 020	0 17	0 040	0 23	0 020	0 10	0 020	0 036	0 020	ND	0 020	0 026	0 020	ND	0 020	0 056
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 035	0 0025	0 0095	0 0025	0 0081	0 0025	0 017	0 0025	0 0099	0 0025	0 0090	0 0025	0 013	0 0025	0 014	0 0025	0 0073
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	50	270	50	200	50	250	50	260	50	320	50	260	50	210	50	230	50	200
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	450	10	560	10	500	10	600	10	560	10	570	10	460	10	550	10	570
Vanadium	0 049	0 0050	0 49	0 0050	0 12	0 0050	0 091	0 0050	0 092	0 0050	0 10	0 0050	0 071	0 0050	0 071	0 0050	0 095	0 0050	0 091
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 001	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	10 54	NA	12 01	NA	11 69	NA	11 83	NA	10 93	NA	11 13	NA	11 09	NA	10 49	NA	10 46
Temperature	NA	NA	11 91	NA	7 73	NA	8 44	NA	17 78	NA	17 17	NA	8 43	NA	11 96	NA	19 68	NA	10 73
Conductivity	NA	NA	0 62	NA	0 63	NA	0 62	NA	0 92	NA	1 05	NA	0 58	NA	0 67	NA	0 88	NA	0 71
Dissolved Oxygen	NA	NA	1 75	NA	1 06	NA	3 31	NA	2 04	NA	0 45	NA	1 05	NA	0 67	NA	1 53	NA	1 27
ORP	NA	NA	-37 2	NA	-74 9	NA	-73 2	NA	-44 5	NA	88 7	NA	-177 8	NA	-202 1	NA	-218 6	NA	-150 4

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-02	Date	11/6/2014		2/17/2015		4/21/2015		8/12/2015		11/2/2015		3/1/2016		5/4/2016		8/23/2016		12/5/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND ^	0 0030	ND	0 0030 J	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0095	0 0010	0 0089	0 0010	0 0089	0 0010	0 042	0 0010	0 015	0 0010	0 010	0 0010	0 0071	0 0010	0 0088	0 0010	0 015
Barium	2 0	0 0025	0 029	0 0025	0 024	0 0025	0 027	0 0025	0 012	0 0025	0 013	0 0025	0 020	0 0025	0 019	0 0025	0 016	0 0025	0 014
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Boron	2 0	0 50	3 0	0 25	3 2	0 25	2 9	0 25	2 5	0 50	2 5	0 50	3 6	0 25	3 3	0 50	3 0	0 25	3 0
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	48	2 0	29	2 0	45	2 0	43	2 0	49	2 0	46	2 0	51	2 0	57	2 0	51
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND ^	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	0 025	0 010	ND	0 010	0 011	0 010	0 020	0 010	0 017	0 010	0 023	0 010	0 017
Fluoride	4 0	0 10	0 61	0 10	0 99	0 10	1 1	0 10	1 1	0 10	0 79	0 10	1 3	0 10	1 6	0 10	1 3	0 10	0 98 F1
Iron	5 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND^	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 041	0 0025	0 043	0 0025	0 068	0 0025	0 028	0 0025	0 035	0 0025	0 038	0 0025	0 040	0 0025	0 021	0 0025	0 023
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	0 0030	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND ^	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0045	0 0025	ND	0 0025	ND	0 0025	0 0085	0 0025	0 0044	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0033
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	50	350	50	150	50	190	50	230	50	230	50	220	50	160	50	220	50	160
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	510	10	440	10	430	10	490	10	380	10	500	10	430	10	490	10	470
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	0 0096	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	0 00061	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	0 00077	0 0025	ND	0 0025	ND	0 0025	0 0006	0 0025	0 00251	0 0025	ND	0 0025	0 0019	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	8 61	NA	8 79	NA	7 95	NA	10 13	NA	8 27	NA	8 57	NA	8 19	NA	7 52	NA	8 62
Temperature	NA	NA	11 87	NA	8 01	NA	9 19	NA	18 47	NA	16 44	NA	6 48	NA	11 43	NA	20 96	NA	8 79
Conductivity	NA	NA	0 65	NA	0 43	NA	0 51	NA	0 64	NA	0 63	NA	0 44	NA	0 53	NA	0 69	NA	0 44
Dissolved Oxygen	NA	NA	0 47	NA	0 89	NA	3 09	NA	0 73	NA	0 56	NA	0 95	NA	0 87	NA	2 54	NA	2 20
ORP	NA	NA	-145 3	NA	-162 8	NA	-128 5	NA	-88 7	NA	52 9	NA	-101 2	NA	-128 2	NA	-119 5	NA	-29 6

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm^6	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-03	Date	11/6/2014		2/17/2015		4/21/2015		8/12/2015		11/2/2015		3/1/2016		5/4/2016		8/24/2016		12/5/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND ^	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0029	0 0010	0 0031	0 0010	0 0039	0 0010	0 0039	0 0010	0 0090	0 0010	0 0062	0 0010	0 0021	0 0010	0 0081	0 0010	0 0056
Barium	2 0	0 0025	0 013	0 0025	0 013	0 0025	0 0082	0 0025	0 012	0 0025	0 011	0 0025	0 016	0 0025	0 0097	0 0025	0 0055	0 0025	0 014
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Boron	2 0	0 50	2 3	0 25	1 6	0 050	1 2	0 25	1 6	0 50	2 0	0 50	2 7	0 25	2 4	0 50	1 8	0 25	2 7
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	64	2 0	72	2 0	64	2 0	72	10	88	2 0	73	2 0	71	2 0	67	2 0	68
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND ^	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	0 014	0 010	ND	0 010	ND	0 010	ND	0 010	0 034	0 010	0 015	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 65	0 10	0 67	0 10	0 60	0 10	0 50	0 10	0 49	0 10	0 36	0 10	0 59	0 10	0 22	0 10	0 38
Iron	5 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND^	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	0 0015	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 0035	0 0025	0 0032	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 015	0 0025	0 0070	0 0025	ND	0 0025	0 011
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 22	0 10	0 16	0 10	ND	0 10	0 17
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 22	0 10	0 16	0 10	ND	0 10	0 17
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0035	0 0025	0 013	0 0025	0 0039	0 0025	0 0044	0 0025	ND	0 0025	0 0033
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	50	240	50	110	50	200	50	200	50	260	50	240	50	160	50	180	50	150
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	400	10	430	10	420	10	480	10	490	10	580	10	470	10	430	10	530
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	0 016	0 0050	0 014	0 0050	0 013	0 0050	0 018
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	0 00073	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 00056	0 0025	0 00293	0 0025	ND	0 0025	0 0020	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	6 95	NA	7 12	NA	6 67	NA	9 22	NA	9 26	NA	7 33	NA	7 25	NA	9 13	NA	7 62
Temperature	NA	NA	13 28	NA	8 19	NA	9 94	NA	16 64	NA	18 38	NA	4 33	NA	11 40	NA	19 01	NA	9 64
Conductivity	NA	NA	0 51	NA	0 46	NA	0 50	NA	0 63	NA	0 80	NA	0 48	NA	0 59	NA	0 57	NA	0 43
Dissolved Oxygen	NA	NA	1 43	NA	1 02	NA	3 32	NA	0 93	NA	0 41	NA	1 84	NA	1 06	NA	1 17	NA	1 17
ORP	NA	NA	13 2	NA	64 6	NA	43 0	NA	-52 0	NA	-7 0	NA	-7 7	NA	-72 7	NA	-163 3	NA	-7 4

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-04	Date	11/6/2014		2/17/2015		4/21/2015		8/12/2015		11/3/2015		3/1/2016		5/4/2016		8/24/2016		12/5/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0080	0 0010	0 0080	0 0010	0 0075	0 0010	0 0072	0 0010	0 0069	0 0010	0 0065	0 0010	0 0067	0 0010	0 010	0 0010	0 010
Barium	2 0	0 0025	0 024	0 0025	0 031	0 0025	0 033	0 0025	0 034	0 0025	0 035	0 0025	0 033	0 0025	0 018	0 0025	0 018	0 0025	0 11
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Boron	2 0	0 50	1 6	0 25	2 0	0 25	1 8	0 25	1 6	0 50	1 5	0 50	1 9	0 25	1 6	0 50	1 7	0 25	2 9
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	36	2 0	53	2 0	70	2 0	65	2 0	63	2 0	51	2 0	49	2 0	58	2 0	56
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND ^	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 23	0 10	0 26	0 10	0 28	0 10	0 41	0 10	0 44	0 10	0 56	0 10	0 59	0 10	0 52	0 10	0 21
Iron	5 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND^	0 10	ND	0 10	ND	0 10	ND	0 10	0 15
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 035	0 0025	0 058	0 0025	0 056	0 0025	0 060	0 0025	0 061	0 0025	0 053	0 0025	0 021	0 0025	0 033	0 0025	0 14
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 023
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	50	200	50	140	50	130	50	210	50	240	50	180	50	150	20	130	100	340
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	280	10	440	10	400	10	480	10	390	10	450	10	330	10	330	10	990
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 00083	0 0025	ND	0 0025	0 0015	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 53	NA	7 99	NA	7 18	NA	8 38	NA	6 68	NA	7 17	NA	6 92	NA	7 01	NA	7 40
Temperature	NA	NA	10 41	NA	4 49	NA	11 22	NA	19 57	NA	14 98	NA	5 27	NA	9 49	NA	17 84	NA	9 93
Conductivity	NA	NA	0 37	NA	0 39	NA	0 46	NA	0 68	NA	0 68	NA	0 40	NA	0 48	NA	0 49	NA	0 89
Dissolved Oxygen	NA	NA	4 55	NA	1 02	NA	3 77	NA	0 66	NA	1 40	NA	0 99	NA	1 62	NA	2 78	NA	2 34
ORP	NA	NA	-56 8	NA	-74 7	NA	-73 4	NA	-62 6	NA	33 4	NA	-52 8	NA	-103 0	NA	-113 3	NA	4 6

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm^6	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-05	Date	11/5/2014		2/17/2015		4/20/2015		8/13/2015		11/3/2015		3/2/2016		5/2/2016		8/24/2016		12/7/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND ^	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0097	0 0010	0 010	0 0010	0 017 F1	0 0010	ND	0 0010	ND	0 0010	0 0023	0 0010	ND ^	0 0010	0 0075	0 0010	0 013
Barium	2 0	0 0025	0 046	0 0025	0 046	0 0025	0 068	0 0025	0 041	0 0025	0 039	0 0025	0 036	0 0025	0 036	0 0025	0 074	0 0025	0 071
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Boron	2 0	5 0	36	5 0	32	2 5	24	2 5	11	5 0	12	5 0	14	5 0	23	2 5	43	5 0	49
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	42	2 0	41	10	270	50	720	10	370	10	300	10	140	10	150	2 0	68
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND ^	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 29	0 10	0 26	0 10	0 23	0 10	0 19	0 10	0 20	0 10	0 19	0 10	0 22	0 10	0 28	0 10	0 29
Iron	5 0	0 10	8 6	0 10	7 2	0 10	6 9	0 10	0 28	0 10	0 58	0 10	2 3	0 10	1 8	0 10	13	0 10	8 9
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 62	0 0025	0 46	0 0025	0 63	0 0025	0 18	0 0025	0 20	0 0025	0 17	0 0025	0 32	0 0025	0 65	0 0025	0 53
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0020	0 0020	ND	0 0020	0 0037	0 0020	0 0026	0 0020	ND	0 0020	0 0046	0 0020	0 0045	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND ^	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND F1	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	ND	0 0025	0 0030 F1	0 0025	0 024	0 0025	0 014	0 0025	0 0054	0 0050	ND	0 0025	ND	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	200	840	250	660	250	700	250	1200	200	910	500	1200	250	1000	250	1100	250	610
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1500	10	1700	13	2200	17	3500	13	2700	10	2800	10	2400	10	2200	10	2000
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	0 00079	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 00259	0 0025	ND	0 0025	0 00054	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 30	NA	7 46	NA	6 73	NA	7 03	NA	6 18	NA	6 71	NA	6 73	NA	6 80	NA	6 82
Temperature	NA	NA	11 27	NA	7 51	NA	10 27	NA	19 55	NA	14 09	NA	7 82	NA	13 27	NA	20 78	NA	7 90
Conductivity	NA	NA	1 32	NA	1 28	NA	2 10	NA	3 58	NA	3 07	NA	2 52	NA	2 38	NA	2 17	NA	1 41
Dissolved Oxygen	NA	NA	1 61	NA	1 97	NA	2 75	NA	1 11	NA	1 42	NA	2 24	NA	1 66	NA	2 05	NA	1 15
ORP	NA	NA	-53 0	NA	-100 6	NA	-58 6	NA	-34 2	NA	46 2	NA	12 1	NA	-20 6	NA	-72 7	NA	-59 3

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm^6	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-06	Date	11/5/2014		2/18/2015		4/20/2015		8/12/2015		11/3/2015		2/29/2016		5/3/2016		8/25/2016		12/6/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND ^	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0045	0 0010	0 0030	0 0010	0 0027	0 0010	0 0037	0 0010	0 0039	0 0010	0 0016	0 0020	0 0023	0 0010	0 0022	0 0010	0 0012
Barium	2 0	0 0025	0 10	0 0025	0 063	0 0025	0 066	0 0025	0 084	0 0025	0 096	0 0025	0 093	0 0025	0 074	0 0025	0 11	0 0025	0 089
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Boron	2 0	0 50	3 7	0 50	3 5	0 050	1 4	0 25	2 0	0 50	1 9	0 50	2 8	5 0	10	0 50	1 6	0 50	5 8
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	97	10	81	10	100	10	110	10	120	10	100	10	77	10	140	10	100
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	0 0023	0 0020	ND ^	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 29	0 10	0 23	0 10	0 32	0 10	0 36	0 10	0 36	0 10	0 34	0 10	0 33	0 10	0 35	0 10	0 29
Iron	5 0	0 10	6 7	0 10	7 6	0 10	0 62	0 10	4 2	0 10	5 2	0 10	5 9	0 10	5 8	0 10	5 2	0 10	4 8
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 44	0 0025	0 38	0 0025	0 19	0 0025	0 24	0 0025	0 26	0 0025	0 26	0 0025	0 26	0 0025	0 28	0 0025	0 39
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND ^	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0034	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0050	ND	0 0025	ND	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	50	240	50	190	50	160	50	170	50	180	50	250	50	300	50	180	100	250
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	890	10	900	10	850	10	1100	10	870	10	960	10	1000	10	1000	10	1100
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	0 00068	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	0 00078	0 0025	ND	0 0025	ND	0 0025	0 00398	0 0025	ND	0 0025	0 00071	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 33	NA	7 45	NA	6 76	NA	7 69	NA	6 81	NA	7 24	NA	7 22	NA	6 90	NA	6 79
Temperature	NA	NA	12 69	NA	4 41	NA	7 68	NA	19 07	NA	13 96	NA	8 01	NA	12 41	NA	18 68	NA	8 54
Conductivity	NA	NA	1 09	NA	0 85	NA	0 91	NA	1 25	NA	1 29	NA	0 96	NA	1 13	NA	1 34	NA	1 03
Dissolved Oxygen	NA	NA	1 37	NA	3 00	NA	4 67	NA	2 11	NA	0 96	NA	1 44	NA	2 12	NA	2 00	NA	1 45
ORP	NA	NA	-94 1	NA	-104 5	NA	-45 6	NA	-130 8	NA	-55 1	NA	-90 1	NA	-107 3	NA	-86 0	NA	-82 7

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm[c]	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Waukegan Station, Waukegan, IL

Sample: MW-07	Date	11/5/2014		2/17/2015		4/20/2015		8/12/2015		11/3/2015		2/29/2016		5/2/2016		8/24/2016		12/7/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND ^	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0095	0 0010	0 011	0 0010	0 014	0 0010	0 010	0 0010	0 011	0 0010	0 0079	0 0020	0 0078	0 0010	0 0074	0 0010	0 0088
Barium	2 0	0 0025	0 062	0 0025	0 069	0 0025	0 071	0 0025	0 065	0 0025	0 063	0 0025	0 053	0 0025	0 066	0 0025	0 081	0 0025	0 087
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND ^	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Boron	2 0	5 0	41	5 0	37	2 5	37	5 0	32	5 0	26	5 0	22	5 0	24	2 5	26	5 0	33
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	48	2 0	48	2 0	46	2 0	64	10	85	2 0	59	2 0	54	2 0	49	2 0	36
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND ^	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 45	0 10	0 38	0 10	0 34	0 10	0 47	0 10	0 45	0 10	0 57	0 10	0 37	0 10	0 38	0 10	0 32
Iron	5 0	0 10	9 4	0 10	12	0 10	14	0 10	11	0 10	11	0 10	8 3	0 10	14	0 10	11	0 10	16
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 34	0 0025	0 45	0 0025	0 62	0 0025	0 43	0 0025	0 40	0 0025	0 30	0 0025	0 48	0 0025	0 52	0 0025	0 55
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	ND	0 0020	0 0021	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	0 0022	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND ^	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	0 020	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0050	ND	0 0025	ND	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND^	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	200	880	250	710	130	470	200	760	200	770	100	580	130	610	100	620	250	510
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1500	10	1600	10	1400	10	1700	10	1500	10	1300	10	1500	10	1500	10	1800
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	0 0012	0 0025	ND	0 0025	ND	0 0025	0 0015	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 46	NA	7 56	NA	6 59	NA	7 38	NA	6 80	NA	7 31	NA	7 02	NA	6 99	NA	6 83
Temperature	NA	NA	13 37	NA	5 67	NA	10 80	NA	16 66	NA	15 05	NA	11 51	NA	12 08	NA	20 24	NA	7 26
Conductivity	NA	NA	1 39	NA	1 20	NA	1 34	NA	1 62	NA	1 65	NA	1 17	NA	1 45	NA	1 63	NA	1 26
Dissolved Oxygen	NA	NA	2 35	NA	1 31	NA	3 14	NA	0 87	NA	0 53	NA	0 90	NA	1 07	NA	2 46	NA	1 34
ORP	NA	NA	-112 5	NA	-137 2	NA	-73 9	NA	-135 5	NA	-69 4	NA	-97 4	NA	-118 4	NA	-94 4	NA	-92 4

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

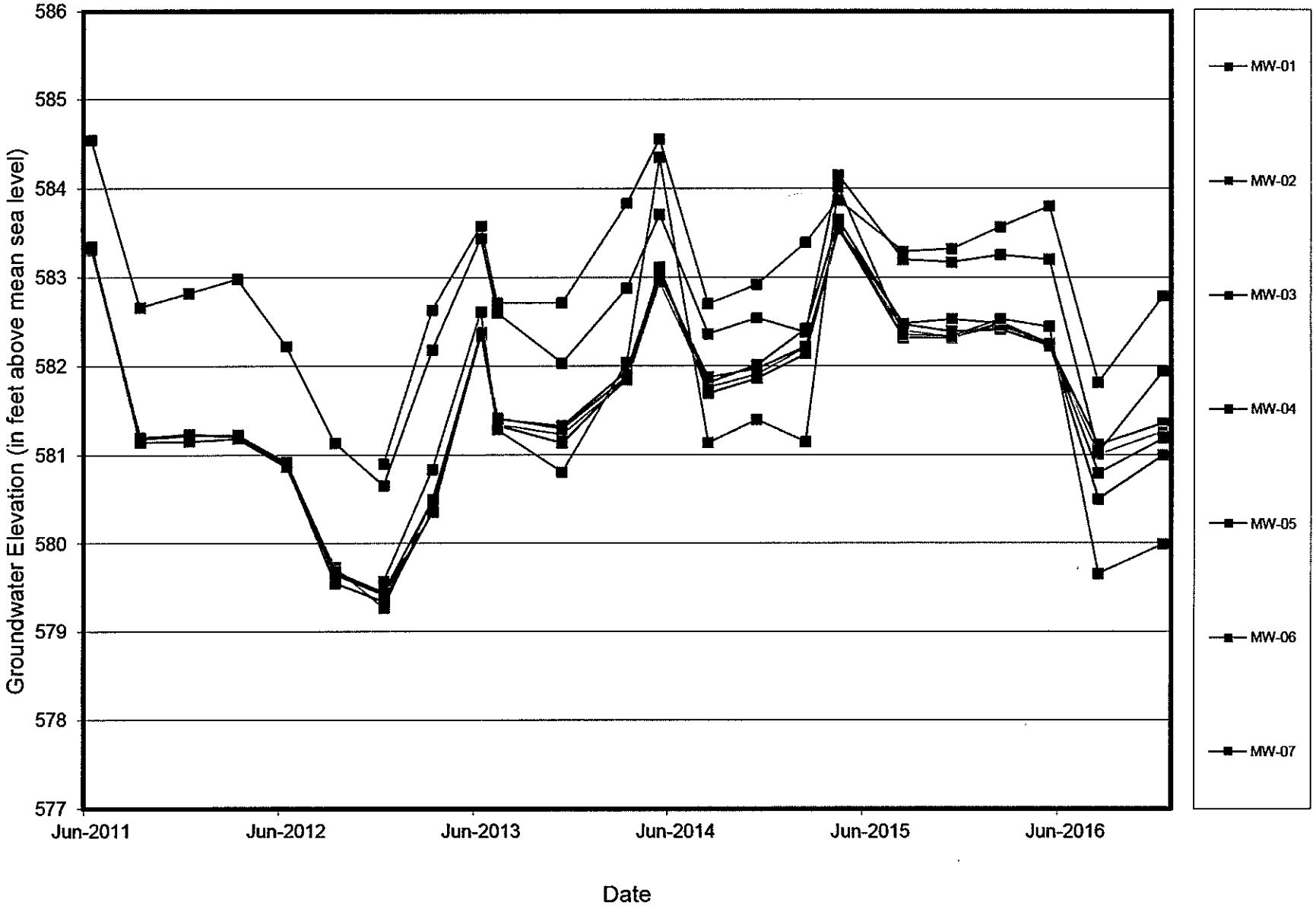
^ - Denotes instrument related QC exceeds the control limits
F1- MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

ATTACHMENT 1
Hydrograph of Water Level Elevations

Midwest Generation Waukegan Station, Waukegan, IL

Groundwater Elevation vs Time



MWG13-15_58506

ATTACHMENT 2
Analytical Data Package

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-120991-1
Client Project/Site: Waukegan Station CCA

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 2B
Brookfield, Wisconsin 53005

Attn: Richard Gnat

Authorized for release by:
12/21/2016 4:51:26 PM

Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com

Table of Contents

Job ID: 500-120991-1

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Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-120991-1

Comments
No additional comments.

Receipt
The samples were received on 12/6/2016 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 2.3° C, 2.7° C, 2.8° C, 3.2° C, 4.8° C and 5.8° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6020A: The low level continuing calibration verification (CCVL) associated with batch 500-365026 recovered above the upper control limit for Beryllium and Copper. The samples associated with this CCV :MW-01 (500-120991-1), (LCS 500-364743/2-A) and (MB 500-364743/1-A). The MB and LCS were within control limits for these analytes. Also, samples 500-120991-1 results were below the RL for these elements and therefore reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-120991-1

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Client Sample ID: MW-01 — Lab Sample ID: 500-120991-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.15		0.0010		mg/L	1		6020A	Dissolved
Barium	0.014		0.0025		mg/L	1		6020A	Dissolved
Boron	1.9		0.050		mg/L	1		6020A	Dissolved
Selenium	0.0073		0.0025		mg/L	1		6020A	Dissolved
Vanadium	0.091		0.0050		mg/L	1		6020A	Dissolved
Cyanide, Total	0.015		0.010		mg/L	1		9014	Dissolved
Sulfate	200		50		mg/L	10		9038	Dissolved
Chloride	65		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	570		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.34		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrite	0.056		0.020		mg/L	1		SM 4500 NO2 B	Dissolved

Client Sample ID: MW-02 — Lab Sample ID: 500-120991-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0010		mg/L	1		6020A	Dissolved
Barium	0.014		0.0025		mg/L	1		6020A	Dissolved
Boron	3.0		0.25		mg/L	5		6020A	Dissolved
Manganese	0.023		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.0033		0.0025		mg/L	1		6020A	Dissolved
Cyanide, Total	0.017		0.010		mg/L	1		9014	Dissolved
Sulfate	160		50		mg/L	10		9038	Dissolved
Chloride	51		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	470		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.98	F1	0.10		mg/L	1		SM 4500 F C	Dissolved

Client Sample ID: MW-03 — Lab Sample ID: 500-120991-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0056		0.0010		mg/L	1		6020A	Dissolved
Barium	0.014		0.0025		mg/L	1		6020A	Dissolved
Boron	2.7		0.25		mg/L	5		6020A	Dissolved
Manganese	0.011		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.0033		0.0025		mg/L	1		6020A	Dissolved
Vanadium	0.018		0.0050		mg/L	1		6020A	Dissolved
Sulfate	150		50		mg/L	10		9038	Dissolved
Chloride	68		2.0		mg/L	1		9251	Dissolved
Nitrogen, Nitrate	0.17		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	530		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.38		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	0.17		0.10		mg/L	1		SM 4500 NO3 F	Dissolved

Client Sample ID: MW-04 — Lab Sample ID: 500-120991-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.010		0.0010		mg/L	1		6020A	Dissolved
Barium	0.11		0.0025		mg/L	1		6020A	Dissolved
Boron	2.9		0.25		mg/L	5		6020A	Dissolved
Iron	0.15		0.10		mg/L	1		6020A	Dissolved
Manganese	0.14		0.0025		mg/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-04 (Continued) — Lab Sample ID: 500-120991-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.023		0.0025		mg/L	1		6020A	Dissolved
Sulfate	340		100		mg/L	20		9038	Dissolved
Chloride	56		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.21		0.10		mg/L	1		SM 4500 F C	Dissolved

Client Sample ID: MW-06 — Lab Sample ID: 500-120991-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0012		0.0010		mg/L	1		6020A	Dissolved
Barium	0.089		0.0025		mg/L	1		6020A	Dissolved
Boron	5.8		0.50		mg/L	10		6020A	Dissolved
Iron	4.8		0.10		mg/L	1		6020A	Dissolved
Manganese	0.39		0.0025		mg/L	1		6020A	Dissolved
Sulfate	250		100		mg/L	20		9038	Dissolved
Chloride	100		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.29		0.10		mg/L	1		SM 4500 F C	Dissolved

Client Sample ID: Duplicate — Lab Sample ID: 500-120991-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0038		0.0010		mg/L	1		6020A	Dissolved
Barium	0.15		0.0025		mg/L	1		6020A	Dissolved
Boron	30		5.0		mg/L	100		6020A	Dissolved
Iron	5.5		0.10		mg/L	1		6020A	Dissolved
Manganese	0.32		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.0053		0.0025		mg/L	1		6020A	Dissolved
Sulfate	370		100		mg/L	20		9038	Dissolved
Chloride	56		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.23		0.10		mg/L	1		SM 4500 F C	Dissolved

Client Sample ID: MW-05 — Lab Sample ID: 500-120991-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013		0.0010		mg/L	1		6020A	Dissolved
Barium	0.071		0.0025		mg/L	1		6020A	Dissolved
Boron	49		5.0		mg/L	100		6020A	Dissolved
Iron	8.9		0.10		mg/L	1		6020A	Dissolved
Manganese	0.53		0.0025		mg/L	1		6020A	Dissolved
Sulfate	610		250		mg/L	50		9038	Dissolved
Chloride	68		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	2000		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.29		0.10		mg/L	1		SM 4500 F C	Dissolved

Client Sample ID: MW-07 — Lab Sample ID: 500-120991-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0088		0.0010		mg/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-07 (Continued)

Lab Sample ID: 500-120991-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.087		0.0025		mg/L	1		6020A	Dissolved
Boron	33		5.0		mg/L	100		6020A	Dissolved
Iron	16		0.10		mg/L	1		6020A	Dissolved
Manganese	0.55		0.0025		mg/L	1		6020A	Dissolved
Sulfate	510		250		mg/L	50		9038	Dissolved
Chloride	36		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	1800		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.32		0.10		mg/L	1		SM 4500 F C	Dissolved

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This Detection Summary does not include radiochemical test results.

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-120991-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
314.0	Perchlorate (IC)	EPA	TAL SAC
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

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Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-120991-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-120991-1	MW-01	Water	12/05/16 09:24	12/06/16 10:30
500-120991-2	MW-02	Water	12/05/16 11:06	12/06/16 10:30
500-120991-3	MW-03	Water	12/05/16 12:33	12/06/16 10:30
500-120991-4	MW-04	Water	12/05/16 14:34	12/06/16 10:30
500-120991-5	MW-06	Water	12/06/16 15:57	12/07/16 10:10
500-120991-6	Duplicate	Water	12/06/16 00:00	12/07/16 10:10
500-120991-7	MW-05	Water	12/07/16 11:01	12/08/16 15:15
500-120991-8	MW-07	Water	12/07/16 09:56	12/07/16 15:15

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Client Sample ID: MW-01

Date Collected: 12/05/16 09:24
Date Received: 12/06/16 10:30

Lab Sample ID: 500-120991-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 17:18	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 17:18	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 17:18	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*71 - 127*		*12/13/16 17:18*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/13/16 17:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*71 - 120*		*12/13/16 17:18*	*1*
Dibromofluoromethane	*93*		*70 - 120*		*12/13/16 17:18*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 19:09	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 16:33	1
Arsenic	**0.15**		0.0010		mg/L		12/12/16 17:19	12/13/16 16:33	1
Barium	**0.014**		0.0025		mg/L		12/12/16 17:19	12/13/16 16:33	1
Beryllium	<0.0010	^	0.0010		mg/L		12/12/16 17:19	12/13/16 16:33	1
Boron	**1.9**		0.050		mg/L		12/12/16 17:19	12/14/16 12:37	1
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:33	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:33	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:33	1
Copper	<0.0020	^	0.0020		mg/L		12/12/16 17:19	12/13/16 16:33	1
Iron	<0.10		0.10		mg/L		12/12/16 17:19	12/13/16 16:33	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:33	1
Manganese	<0.0025		0.0025		mg/L		12/12/16 17:19	12/13/16 16:33	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:33	1
Selenium	**0.0073**		0.0025		mg/L		12/12/16 17:19	12/15/16 12:47	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:33	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:33	1
Vanadium	**0.091**		0.0050		mg/L		12/12/16 17:19	12/13/16 16:33	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 16:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.015**		0.010		mg/L		12/13/16 10:10	12/13/16 16:37	1
Sulfate	**200**		50		mg/L			12/13/16 11:30	10
Chloride	**65**		2.0		mg/L			12/08/16 19:44	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**570**		10		mg/L			12/09/16 03:17	1
Fluoride	**0.34**		0.10		mg/L			12/10/16 12:27	1
Nitrogen, Nitrite	**0.056**		0.020		mg/L			12/06/16 18:49	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:36	1

Client Sample ID: MW-02

Date Collected: 12/05/16 11:06
Date Received: 12/06/16 10:30

Lab Sample ID: 500-120991-2

Matrix: Water

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 17:44	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 17:44	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 17:44	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*		*12/13/16 17:44*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/13/16 17:44*	*1*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*12/13/16 17:44*	*1*
Dibromofluoromethane	*94*		*70 - 120*		*12/13/16 17:44*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 20:46	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 16:48	1
Arsenic	**0.015**		0.0010		mg/L		12/12/16 17:19	12/13/16 16:48	1
Barium	**0.014**		0.0025		mg/L		12/12/16 17:19	12/13/16 16:48	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:48	1
Boron	**3.0**		0.25		mg/L		12/12/16 17:19	12/14/16 12:40	5
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:48	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:48	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:48	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:48	1
Iron	<0.10		0.10		mg/L		12/12/16 17:19	12/13/16 16:48	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:48	1
Manganese	**0.023**		0.0025		mg/L		12/12/16 17:19	12/13/16 16:48	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:48	1
Selenium	**0.0033**		0.0025		mg/L		12/12/16 17:19	12/15/16 12:50	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:48	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:48	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:48	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 16:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.017**		0.010		mg/L		12/13/16 10:10	12/13/16 16:37	1
Sulfate	**160**		50		mg/L			12/13/16 11:33	10
Chloride	**51**		2.0		mg/L			12/08/16 19:45	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**470**		10		mg/L			12/09/16 03:30	1
Fluoride	**0.98**	F1	0.10		mg/L			12/10/16 12:30	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/06/16 18:50	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:38	1

Client Sample ID: MW-03

Date Collected: 12/05/16 12:33
Date Received: 12/06/16 10:30

Lab Sample ID: 500-120991-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 18:11	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 18:11	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 18:11	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*71 - 127*		*12/13/16 18:11*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*12/13/16 18:11*	*1*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*		*12/13/16 18:11*	*1*
Dibromofluoromethane	*93*		*70 - 120*		*12/13/16 18:11*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 21:05	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 16:52	1
Arsenic	**0.0056**		0.0010		mg/L		12/12/16 17:19	12/13/16 16:52	1
Barium	**0.014**		0.0025		mg/L		12/12/16 17:19	12/13/16 16:52	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:52	1
Boron	**2.7**		0.25		mg/L		12/12/16 17:19	12/14/16 12:44	5
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:52	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:52	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:52	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:52	1
Iron	<0.10		0.10		mg/L		12/12/16 17:19	12/13/16 16:52	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:52	1
Manganese	**0.011**		0.0025		mg/L		12/12/16 17:19	12/13/16 16:52	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:52	1
Selenium	**0.0033**		0.0025		mg/L		12/12/16 17:19	12/15/16 12:54	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:52	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:52	1
Vanadium	**0.018**		0.0050		mg/L		12/12/16 17:19	12/13/16 16:52	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 16:52	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:37	1
Sulfate	**150**		50		mg/L			12/13/16 11:36	10
Chloride	**68**		2.0		mg/L			12/08/16 19:47	1
Nitrogen, Nitrate	**0.17**		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**530**		10		mg/L			12/09/16 03:35	1
Fluoride	**0.38**		0.10		mg/L			12/10/16 12:39	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/06/16 18:50	1
Nitrogen, Nitrate Nitrite	**0.17**		0.10		mg/L			12/12/16 21:40	1

Client Sample ID: MW-04

Date Collected: 12/05/16 14:34
Date Received: 12/06/16 10:30

Lab Sample ID: 500-120991-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 18:37	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 18:37	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 18:37	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*71 - 127*		*12/13/16 18:37*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*12/13/16 18:37*	*1*
4-Bromofluorobenzene (Surr)	*91*		*71 - 120*		*12/13/16 18:37*	*1*
Dibromofluoromethane	*91*		*70 - 120*		*12/13/16 18:37*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 21:24	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:10	1
Arsenic	**0.010**		0.0010		mg/L		12/12/16 17:19	12/13/16 17:10	1
Barium	**0.11**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:10	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:10	1
Boron	**2.9**		0.25		mg/L		12/12/16 17:19	12/14/16 13:03	5
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:10	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:10	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:10	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:10	1
Iron	**0.15**		0.10		mg/L		12/12/16 17:19	12/13/16 17:10	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:10	1
Manganese	**0.14**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:10	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:10	1
Selenium	**0.023**		0.0025		mg/L		12/12/16 17:19	12/15/16 13:13	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:10	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:10	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:10	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:38	1
Sulfate	**340**		100		mg/L			12/13/16 11:39	20
Chloride	**56**		2.0		mg/L			12/08/16 19:49	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**990**		10		mg/L			12/09/16 03:39	1
Fluoride	**0.21**		0.10		mg/L			12/10/16 12:42	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/06/16 18:51	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:42	1

Client Sample ID: MW-06

Date Collected: 12/06/16 15:57
Date Received: 12/07/16 10:10

Lab Sample ID: 500-120991-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 19:03	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 19:03	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 19:03	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*		*12/13/16 19:03*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/13/16 19:03*	*1*
4-Bromofluorobenzene (Surr)	*91*		*71 - 120*		*12/13/16 19:03*	*1*
Dibromofluoromethane	*94*		*70 - 120*		*12/13/16 19:03*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 21:44	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:14	1
Arsenic	**0.0012**		0.0010		mg/L		12/12/16 17:19	12/13/16 17:14	1
Barium	**0.089**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:14	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:14	1
Boron	**5.8**		0.50		mg/L		12/12/16 17:19	12/14/16 13:33	10
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:14	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:14	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:14	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:14	1
Iron	**4.8**		0.10		mg/L		12/12/16 17:19	12/13/16 17:14	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:14	1
Manganese	**0.39**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:14	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:14	1
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 13:17	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:14	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:14	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:14	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:08	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:38	1
Sulfate	**250**		100		mg/L			12/13/16 11:40	20
Chloride	**100**		10		mg/L			12/08/16 20:29	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**1100**		10		mg/L			12/09/16 03:44	1
Fluoride	**0.29**		0.10		mg/L			12/10/16 12:54	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:51	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:44	1

Client Sample ID: Duplicate

Date Collected: 12/06/16 00:00
Date Received: 12/07/16 10:10

Lab Sample ID: 500-120991-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 19:29	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 19:29	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 19:29	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*71 - 127*		*12/13/16 19:29*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/13/16 19:29*	*1*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*		*12/13/16 19:29*	*1*
Dibromofluoromethane	*93*		*70 - 120*		*12/13/16 19:29*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 22:03	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:18	1
Arsenic	**0.0038**		0.0010		mg/L		12/12/16 17:19	12/13/16 17:18	1
Barium	**0.15**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:18	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:18	1
Boron	**30**		5.0		mg/L		12/12/16 17:19	12/14/16 13:37	100
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:18	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:18	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:18	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:18	1
Iron	**5.5**		0.10		mg/L		12/12/16 17:19	12/13/16 17:18	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:18	1
Manganese	**0.32**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:18	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:18	1
Selenium	**0.0053**		0.0025		mg/L		12/12/16 17:19	12/15/16 13:21	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:18	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:18	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:18	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:18	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:39	1
Sulfate	**370**		100		mg/L			12/13/16 11:41	20
Chloride	**56**		2.0		mg/L			12/08/16 19:50	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**1300**		10		mg/L			12/09/16 03:48	1
Fluoride	**0.23**		0.10		mg/L			12/10/16 12:57	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:52	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:46	1

Client Sample ID: MW-05

Date Collected: 12/07/16 11:01
Date Received: 12/08/16 15:15

Lab Sample ID: 500-120991-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 19:46	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 19:46	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 19:46	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 127*		*12/13/16 19:46*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*12/13/16 19:46*	*1*
4-Bromofluorobenzene (Surr)	*109*		*71 - 120*		*12/13/16 19:46*	*1*
Dibromofluoromethane	*99*		*70 - 120*		*12/13/16 19:46*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 22:23	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:22	1
Arsenic	**0.013**		0.0010		mg/L		12/12/16 17:19	12/13/16 17:22	1
Barium	**0.071**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:22	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:22	1
Boron	**49**		5.0		mg/L		12/12/16 17:19	12/14/16 13:41	100
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:22	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:22	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:22	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:22	1
Iron	**8.9**		0.10		mg/L		12/12/16 17:19	12/13/16 17:22	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:22	1
Manganese	**0.53**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:22	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:22	1
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 13:32	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:22	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:22	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:22	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:22	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:39	1
Sulfate	**610**		250		mg/L			12/13/16 11:42	50
Chloride	**68**		2.0		mg/L			12/12/16 20:09	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**2000**		10		mg/L			12/09/16 03:53	1
Fluoride	**0.29**		0.10		mg/L			12/10/16 13:00	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/09/16 09:32	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:48	1

Client Sample ID: MW-07

Date Collected: 12/07/16 09:56
Date Received: 12/07/16 15:15

Lab Sample ID: 500-120991-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 20:14	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 20:14	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 20:14	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*71 - 127*		*12/13/16 20:14*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*12/13/16 20:14*	*1*
4-Bromofluorobenzene (Surr)	*108*		*71 - 120*		*12/13/16 20:14*	*1*
Dibromofluoromethane	*98*		*70 - 120*		*12/13/16 20:14*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 22:42	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:33	1
Arsenic	**0.0088**		0.0010		mg/L		12/12/16 17:19	12/13/16 17:33	1
Barium	**0.087**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:33	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:33	1
Boron	**33**		5.0		mg/L		12/12/16 17:19	12/14/16 13:44	100
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:33	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:33	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:33	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:33	1
Iron	**16**		0.10		mg/L		12/12/16 17:19	12/13/16 17:33	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:33	1
Manganese	**0.55**		0.0025		mg/L		12/12/16 17:19	12/13/16 17:33	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:33	1
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 13:36	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:33	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:33	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:33	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:16	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:40	1
Sulfate	**510**		250		mg/L			12/13/16 11:43	50
Chloride	**36**		2.0		mg/L			12/08/16 19:52	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/13/16 15:52	1
Total Dissolved Solids	**1800**		10		mg/L			12/09/16 03:57	1
Fluoride	**0.32**		0.10		mg/L			12/10/16 13:04	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/09/16 09:32	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:51	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.

General Chemistry

Qualifier	Qualifier Description
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, 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)

GC/MS VOA

Analysis Batch: 364795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Total/NA	Water	8260B	
500-120991-2	MW-02	Total/NA	Water	8260B	
500-120991-3	MW-03	Total/NA	Water	8260B	
500-120991-4	MW-04	Total/NA	Water	8260B	
500-120991-5	MW-06	Total/NA	Water	8260B	
500-120991-6	Duplicate	Total/NA	Water	8260B	
MB 500-364795/6	Method Blank	Total/NA	Water	8260B	
LCS 500-364795/4	Lab Control Sample	Total/NA	Water	8260B	
500-120991-6 MS	Duplicate	Total/NA	Water	8260B	
500-120991-6 MSD	Duplicate	Total/NA	Water	8260B	

Analysis Batch: 364810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-7	MW-05	Total/NA	Water	8260B	
500-120991-8	MW-07	Total/NA	Water	8260B	
MB 500-364810/6	Method Blank	Total/NA	Water	8260B	
LCS 500-364810/4	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 143193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Total/NA	Water	314.0	
500-120991-2	MW-02	Total/NA	Water	314.0	
500-120991-3	MW-03	Total/NA	Water	314.0	
500-120991-4	MW-04	Total/NA	Water	314.0	
500-120991-5	MW-06	Total/NA	Water	314.0	
500-120991-6	Duplicate	Total/NA	Water	314.0	
500-120991-7	MW-05	Total/NA	Water	314.0	
500-120991-8	MW-07	Total/NA	Water	314.0	
MB 320-143193/5	Method Blank	Total/NA	Water	314.0	
LCS 320-143193/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-143193/4	Lab Control Sample	Total/NA	Water	314.0	
500-120991-1 MS	MW-01	Total/NA	Water	314.0	
500-120991-1 MSD	MW-01	Total/NA	Water	314.0	

Metals

Prep Batch: 364391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	7470A	
500-120991-2	MW-02	Dissolved	Water	7470A	
500-120991-3	MW-03	Dissolved	Water	7470A	
500-120991-4	MW-04	Dissolved	Water	7470A	
500-120991-5	MW-06	Dissolved	Water	7470A	
500-120991-6	Duplicate	Dissolved	Water	7470A	
500-120991-7	MW-05	Dissolved	Water	7470A	
500-120991-8	MW-07	Dissolved	Water	7470A	
MB 500-364391/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-364391/13-A	Lab Control Sample	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 364705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	7470A	364391
500-120991-2	MW-02	Dissolved	Water	7470A	364391
500-120991-3	MW-03	Dissolved	Water	7470A	364391
500-120991-4	MW-04	Dissolved	Water	7470A	364391
500-120991-5	MW-06	Dissolved	Water	7470A	364391
500-120991-6	Duplicate	Dissolved	Water	7470A	364391
500-120991-7	MW-05	Dissolved	Water	7470A	364391
500-120991-8	MW-07	Dissolved	Water	7470A	364391
MB 500-364391/12-A	Method Blank	Total/NA	Water	7470A	364391
LCS 500-364391/13-A	Lab Control Sample	Total/NA	Water	7470A	364391

Prep Batch: 364743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	Soluble Metals	
500-120991-2	MW-02	Dissolved	Water	Soluble Metals	
500-120991-3	MW-03	Dissolved	Water	Soluble Metals	
500-120991-4	MW-04	Dissolved	Water	Soluble Metals	
500-120991-5	MW-06	Dissolved	Water	Soluble Metals	
500-120991-6	Duplicate	Dissolved	Water	Soluble Metals	
500-120991-7	MW-05	Dissolved	Water	Soluble Metals	
500-120991-8	MW-07	Dissolved	Water	Soluble Metals	
MB 500-364743/1-A	Method Blank	Soluble	Water	Soluble Metals	
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
500-120991-3 MS	MW-03	Dissolved	Water	Soluble Metals	
500-120991-3 MSD	MW-03	Dissolved	Water	Soluble Metals	
500-120991-3 DU	MW-03	Dissolved	Water	Soluble Metals	

Analysis Batch: 365026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	6020A	364743
500-120991-2	MW-02	Dissolved	Water	6020A	364743
500-120991-3	MW-03	Dissolved	Water	6020A	364743
500-120991-4	MW-04	Dissolved	Water	6020A	364743
500-120991-5	MW-06	Dissolved	Water	6020A	364743
500-120991-6	Duplicate	Dissolved	Water	6020A	364743
500-120991-7	MW-05	Dissolved	Water	6020A	364743
500-120991-8	MW-07	Dissolved	Water	6020A	364743
MB 500-364743/1-A	Method Blank	Soluble	Water	6020A	364743
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	6020A	364743
500-120991-3 MS	MW-03	Dissolved	Water	6020A	364743
500-120991-3 MSD	MW-03	Dissolved	Water	6020A	364743
500-120991-3 DU	MW-03	Dissolved	Water	6020A	364743

Analysis Batch: 365255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	6020A	364743
500-120991-2	MW-02	Dissolved	Water	6020A	364743
500-120991-3	MW-03	Dissolved	Water	6020A	364743
500-120991-4	MW-04	Dissolved	Water	6020A	364743
500-120991-5	MW-06	Dissolved	Water	6020A	364743
500-120991-6	Duplicate	Dissolved	Water	6020A	364743

Metals (Continued)

Analysis Batch: 365255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-7	MW-05	Dissolved	Water	6020A	364743
500-120991-8	MW-07	Dissolved	Water	6020A	364743
MB 500-364743/1-A	Method Blank	Soluble	Water	6020A	364743
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	6020A	364743
500-120991-3 MS	MW-03	Dissolved	Water	6020A	364743
500-120991-3 MSD	MW-03	Dissolved	Water	6020A	364743
500-120991-3 DU	MW-03	Dissolved	Water	6020A	364743

Analysis Batch: 365351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	6020A	364743
500-120991-2	MW-02	Dissolved	Water	6020A	364743
500-120991-3	MW-03	Dissolved	Water	6020A	364743
500-120991-4	MW-04	Dissolved	Water	6020A	364743
500-120991-5	MW-06	Dissolved	Water	6020A	364743
500-120991-6	Duplicate	Dissolved	Water	6020A	364743
500-120991-7	MW-05	Dissolved	Water	6020A	364743
500-120991-8	MW-07	Dissolved	Water	6020A	364743
MB 500-364743/1-A	Method Blank	Soluble	Water	6020A	364743
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	6020A	364743
500-120991-3 MS	MW-03	Dissolved	Water	6020A	364743
500-120991-3 MSD	MW-03	Dissolved	Water	6020A	364743
500-120991-3 DU	MW-03	Dissolved	Water	6020A	364743

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General Chemistry

Analysis Batch: 364267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	9251	
500-120991-2	MW-02	Dissolved	Water	9251	
500-120991-3	MW-03	Dissolved	Water	9251	
500-120991-4	MW-04	Dissolved	Water	9251	
500-120991-5	MW-06	Dissolved	Water	9251	
500-120991-6	Duplicate	Dissolved	Water	9251	
500-120991-8	MW-07	Dissolved	Water	9251	
MB 500-364267/12	Method Blank	Total/NA	Water	9251	
LCS 500-364267/13	Lab Control Sample	Total/NA	Water	9251	
500-120991-2 MS	MW-02	Dissolved	Water	9251	
500-120991-2 MSD	MW-02	Dissolved	Water	9251	

Analysis Batch: 364294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	SM 2540C	
500-120991-2	MW-02	Dissolved	Water	SM 2540C	
500-120991-3	MW-03	Dissolved	Water	SM 2540C	
500-120991-4	MW-04	Dissolved	Water	SM 2540C	
500-120991-5	MW-06	Dissolved	Water	SM 2540C	
500-120991-6	Duplicate	Dissolved	Water	SM 2540C	
500-120991-7	MW-05	Dissolved	Water	SM 2540C	
500-120991-8	MW-07	Dissolved	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 364294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-364294/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-364294/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-120991-1 MS	MW-01	Dissolved	Water	SM 2540C	
500-120991-1 DU	MW-01	Dissolved	Water	SM 2540C	

Analysis Batch: 364534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	SM 4500 NO2 B	
500-120991-2	MW-02	Dissolved	Water	SM 4500 NO2 B	
500-120991-3	MW-03	Dissolved	Water	SM 4500 NO2 B	
500-120991-4	MW-04	Dissolved	Water	SM 4500 NO2 B	
MB 500-364534/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-364534/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
500-120991-1 MS	MW-01	Dissolved	Water	SM 4500 NO2 B	
500-120991-1 MSD	MW-01	Dissolved	Water	SM 4500 NO2 B	

Analysis Batch: 364535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-5	MW-06	Dissolved	Water	SM 4500 NO2 B	
500-120991-6	Duplicate	Dissolved	Water	SM 4500 NO2 B	
MB 500-364535/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-364535/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 364536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-7	MW-05	Dissolved	Water	SM 4500 NO2 B	
500-120991-8	MW-07	Dissolved	Water	SM 4500 NO2 B	
MB 500-364536/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-364536/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 364768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-7	MW-05	Dissolved	Water	9251	
MB 500-364768/12	Method Blank	Total/NA	Water	9251	
LCS 500-364768/45	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 364773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	SM 4500 NO3 F	
500-120991-2	MW-02	Dissolved	Water	SM 4500 NO3 F	
500-120991-3	MW-03	Dissolved	Water	SM 4500 NO3 F	
500-120991-4	MW-04	Dissolved	Water	SM 4500 NO3 F	
500-120991-5	MW-06	Dissolved	Water	SM 4500 NO3 F	
500-120991-6	Duplicate	Dissolved	Water	SM 4500 NO3 F	
500-120991-7	MW-05	Dissolved	Water	SM 4500 NO3 F	
500-120991-8	MW-07	Dissolved	Water	SM 4500 NO3 F	
MB 500-364773/4	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-364773/5	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	

General Chemistry (Continued)

Analysis Batch: 364818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	SM 4500 F C	
500-120991-2	MW-02	Dissolved	Water	SM 4500 F C	
500-120991-3	MW-03	Dissolved	Water	SM 4500 F C	
500-120991-4	MW-04	Dissolved	Water	SM 4500 F C	
500-120991-5	MW-06	Dissolved	Water	SM 4500 F C	
500-120991-6	Duplicate	Dissolved	Water	SM 4500 F C	
500-120991-7	MW-05	Dissolved	Water	SM 4500 F C	
500-120991-8	MW-07	Dissolved	Water	SM 4500 F C	
MB 500-364818/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-364818/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-120991-2 MS	MW-02	Dissolved	Water	SM 4500 F C	
500-120991-2 MSD	MW-02	Dissolved	Water	SM 4500 F C	

Prep Batch: 364849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	9010B	
500-120991-2	MW-02	Dissolved	Water	9010B	
500-120991-3	MW-03	Dissolved	Water	9010B	
500-120991-4	MW-04	Dissolved	Water	9010B	
500-120991-5	MW-06	Dissolved	Water	9010B	
500-120991-6	Duplicate	Dissolved	Water	9010B	
500-120991-7	MW-05	Dissolved	Water	9010B	
500-120991-8	MW-07	Dissolved	Water	9010B	
MB 500-364849/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-364849/2-A	Lab Control Sample	Total/NA	Water	9010B	

Analysis Batch: 364874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	9038	
500-120991-2	MW-02	Dissolved	Water	9038	
500-120991-3	MW-03	Dissolved	Water	9038	
500-120991-4	MW-04	Dissolved	Water	9038	
500-120991-5	MW-06	Dissolved	Water	9038	
500-120991-6	Duplicate	Dissolved	Water	9038	
500-120991-7	MW-05	Dissolved	Water	9038	
500-120991-8	MW-07	Dissolved	Water	9038	
MB 500-364874/3	Method Blank	Total/NA	Water	9038	
LCS 500-364874/4	Lab Control Sample	Total/NA	Water	9038	
500-120991-1 MS	MW-01	Dissolved	Water	9038	
500-120991-1 MSD	MW-01	Dissolved	Water	9038	
500-120991-3 MS	MW-03	Dissolved	Water	9038	
500-120991-3 MSD	MW-03	Dissolved	Water	9038	

Analysis Batch: 364928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	Nitrate by calc	
500-120991-2	MW-02	Dissolved	Water	Nitrate by calc	
500-120991-3	MW-03	Dissolved	Water	Nitrate by calc	
500-120991-4	MW-04	Dissolved	Water	Nitrate by calc	
500-120991-5	MW-06	Dissolved	Water	Nitrate by calc	
500-120991-6	Duplicate	Dissolved	Water	Nitrate by calc	

General Chemistry (Continued)

Analysis Batch: 364928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-7	MW-05	Dissolved	Water	Nitrate by calc	
500-120991-8	MW-07	Dissolved	Water	Nitrate by calc	

Analysis Batch: 365072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-120991-1	MW-01	Dissolved	Water	9014	364849
500-120991-2	MW-02	Dissolved	Water	9014	364849
500-120991-3	MW-03	Dissolved	Water	9014	364849
500-120991-4	MW-04	Dissolved	Water	9014	364849
500-120991-5	MW-06	Dissolved	Water	9014	364849
500-120991-6	Duplicate	Dissolved	Water	9014	364849
500-120991-7	MW-05	Dissolved	Water	9014	364849
500-120991-8	MW-07	Dissolved	Water	9014	364849
MB 500-364849/1-A	Method Blank	Total/NA	Water	9014	364849
LCS 500-364849/2-A	Lab Control Sample	Total/NA	Water	9014	364849

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Surrogate Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-120991-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-127)	(75-120)	(71-120)	(70-120)
500-120991-1	MW-01	92	92	90	93
500-120991-2	MW-02	93	92	89	94
500-120991-3	MW-03	92	93	92	93
500-120991-4	MW-04	90	91	91	91
500-120991-5	MW-06	93	92	91	94
500-120991-6	Duplicate	93	92	88	93
500-120991-6 MS	Duplicate	92	92	89	96
500-120991-6 MSD	Duplicate	89	94	89	97
500-120991-7	MW-05	111	103	109	99
500-120991-8	MW-07	109	102	108	98
LCS 500-364795/4	Lab Control Sample	90	92	88	97
LCS 500-364810/4	Lab Control Sample	104	102	107	95
MB 500-364795/6	Method Blank	91	94	89	93
MB 500-364810/6	Method Blank	108	102	108	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364795/6
Matrix: Water
Analysis Batch: 364795

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 11:01	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 11:01	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 11:01	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*71 - 127*		*12/13/16 11:01*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/13/16 11:01*	*1*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*12/13/16 11:01*	*1*
Dibromofluoromethane	*93*		*70 - 120*		*12/13/16 11:01*	*1*

Lab Sample ID: LCS 500-364795/4
Matrix: Water
Analysis Batch: 364795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0469		mg/L		94	70 - 125
Toluene	0.0500	0.0464		mg/L		93	70 - 125
Ethylbenzene	0.0500	0.0457		mg/L		91	70 - 125
Xylenes, Total	0.100	0.0892		mg/L		89	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*71 - 127*
Toluene-d8 (Surr)	*92*		*75 - 120*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*
Dibromofluoromethane	*97*		*70 - 120*

Lab Sample ID: 500-120991-6 MS
Matrix: Water
Analysis Batch: 364795

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00050		0.0500	0.0505		mg/L		101	70 - 125
Toluene	<0.00050		0.0500	0.0502		mg/L		100	70 - 125
Ethylbenzene	<0.00050		0.0500	0.0498		mg/L		100	70 - 125
Xylenes, Total	<0.0010		0.100	0.0972		mg/L		97	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*71 - 127*
Toluene-d8 (Surr)	*92*		*75 - 120*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*
Dibromofluoromethane	*96*		*70 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-120991-6 MSD
Matrix: Water
Analysis Batch: 364795

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00050		0.0500	0.0463		mg/L		93	70 - 125	9	20
Toluene	<0.00050		0.0500	0.0463		mg/L		93	70 - 125	8	20
Ethylbenzene	<0.00050		0.0500	0.0460		mg/L		92	70 - 125	8	20
Xylenes, Total	<0.0010		0.100	0.0891		mg/L		89	70 - 125	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*71 - 127*
Toluene-d8 (Surr)	*94*		*75 - 120*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*
Dibromofluoromethane	*97*		*70 - 120*

Lab Sample ID: MB 500-364810/6
Matrix: Water
Analysis Batch: 364810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 12:23	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 12:23	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 12:23	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*		*12/13/16 12:23*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*12/13/16 12:23*	*1*
4-Bromofluorobenzene (Surr)	*108*		*71 - 120*		*12/13/16 12:23*	*1*
Dibromofluoromethane	*97*		*70 - 120*		*12/13/16 12:23*	*1*

Lab Sample ID: LCS 500-364810/4
Matrix: Water
Analysis Batch: 364810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0502		mg/L		100	70 - 125
Toluene	0.0500	0.0503		mg/L		101	70 - 125
Ethylbenzene	0.0500	0.0519		mg/L		104	70 - 125
Xylenes, Total	0.100	0.103		mg/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 127*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*107*		*71 - 120*
Dibromofluoromethane	*95*		*70 - 120*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-143193/5
Matrix: Water
Analysis Batch: 143193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 16:33	1

Lab Sample ID: LCS 320-143193/6
Matrix: Water
Analysis Batch: 143193

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	0.0534		mg/L		107	85 - 115

Lab Sample ID: MRL 320-143193/4
Matrix: Water
Analysis Batch: 143193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	<4.0		ug/L		86	75 - 125

Lab Sample ID: 500-120991-1 MS
Matrix: Water
Analysis Batch: 143193

Client Sample ID: MW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	<0.0040		0.0500	0.0516		mg/L		103	80 - 120

Lab Sample ID: 500-120991-1 MSD
Matrix: Water
Analysis Batch: 143193

Client Sample ID: MW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	<0.0040		0.0500	0.0524		mg/L		105	80 - 120	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 500-120991-3 MS
Matrix: Water
Analysis Batch: 365026

Client Sample ID: MW-03
Prep Type: Dissolved
Prep Batch: 364743

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.525		mg/L		105	75 - 125
Arsenic	0.0056		0.100	0.116		mg/L		110	75 - 125
Barium	0.014		0.500	0.537		mg/L		105	75 - 125
Beryllium	<0.0010		0.0500	0.0504		mg/L		101	75 - 125
Cadmium	<0.00050		0.0500	0.0515		mg/L		103	75 - 125
Chromium	<0.0050		0.200	0.195		mg/L		98	75 - 125
Cobalt	<0.0010		0.500	0.504		mg/L		101	75 - 125
Copper	<0.0020		0.250	0.265		mg/L		106	75 - 125
Iron	<0.10		1.00	1.02		mg/L		102	75 - 125
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125
Manganese	0.011		0.500	0.509		mg/L		100	75 - 125
Nickel	<0.0020		0.500	0.485		mg/L		97	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-120991-3 MS — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365026 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.00050		0.0500	0.0497		mg/L		99	75 - 125
Thallium	<0.0020		0.100	0.103		mg/L		103	75 - 125
Vanadium	0.018		0.500	0.517		mg/L		100	75 - 125
Zinc	<0.020		0.500	0.537		mg/L		107	75 - 125

Lab Sample ID: 500-120991-3 MS — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365255 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	2.7		1.00	3.66		mg/L		93	75 - 125

Lab Sample ID: 500-120991-3 MS — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365351 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.0033		0.100	0.100		mg/L		97	75 - 125

Lab Sample ID: 500-120991-3 MSD — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365026 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.538		mg/L		108	75 - 125	2	20
Arsenic	0.0056		0.100	0.117		mg/L		112	75 - 125	2	20
Barium	0.014		0.500	0.561		mg/L		109	75 - 125	4	20
Beryllium	<0.0010		0.0500	0.0501		mg/L		100	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0523		mg/L		105	75 - 125	2	20
Chromium	<0.0050		0.200	0.200		mg/L		100	75 - 125	2	20
Cobalt	<0.0010		0.500	0.518		mg/L		104	75 - 125	3	20
Copper	<0.0020		0.250	0.269		mg/L		108	75 - 125	2	20
Iron	<0.10		1.00	1.05		mg/L		105	75 - 125	3	20
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	2	20
Manganese	0.011		0.500	0.523		mg/L		103	75 - 125	3	20
Nickel	<0.0020		0.500	0.499		mg/L		100	75 - 125	3	20
Silver	<0.00050		0.0500	0.0487		mg/L		97	75 - 125	2	20
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	3	20
Vanadium	0.018		0.500	0.529		mg/L		102	75 - 125	2	20
Zinc	<0.020		0.500	0.545		mg/L		109	75 - 125	2	20

Lab Sample ID: 500-120991-3 MSD — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365255 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	2.7		1.00	3.74		mg/L		101	75 - 125	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-120991-3 MSD — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365351 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.0033		0.100	0.100		mg/L		97	75 - 125	0	20

Lab Sample ID: 500-120991-3 DU — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365026 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0056		0.00565		mg/L		0.4	20
Barium	0.014		0.0141		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Copper	<0.0020		<0.0020		mg/L		NC	20
Iron	<0.10		<0.10		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Manganese	0.011		0.0109		mg/L		0.5	20
Nickel	<0.0020		<0.0020		mg/L		NC	20
Selenium	0.0038	^	0.00404		mg/L		5	20
Silver	<0.00050		<0.00050		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20
Vanadium	0.018		0.0177		mg/L		1	20
Zinc	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: 500-120991-3 DU — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365255 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	2.7		2.75		mg/L		0.7	20

Lab Sample ID: 500-120991-3 DU — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 365351 — **Prep Batch: 364743**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Selenium	0.0033		0.00320		mg/L		3	20

Lab Sample ID: MB 500-364743/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Soluble**
Analysis Batch: 365026 — **Prep Batch: 364743**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 16:25	1
Arsenic	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:25	1
Barium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/13/16 16:25	1
Beryllium	<0.0010	^	0.0010		mg/L		12/12/16 17:19	12/13/16 16:25	1
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:25	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-364743/1-A
Matrix: Water
Analysis Batch: 365026

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 364743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:25	1
Copper	<0.0020	^	0.0020		mg/L		12/12/16 17:19	12/13/16 16:25	1
Iron	<0.10		0.10		mg/L		12/12/16 17:19	12/13/16 16:25	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Manganese	<0.0025		0.0025		mg/L		12/12/16 17:19	12/13/16 16:25	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:25	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:25	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 16:25	1

Lab Sample ID: MB 500-364743/1-A
Matrix: Water
Analysis Batch: 365255

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 364743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		12/12/16 17:19	12/14/16 12:17	1

Lab Sample ID: MB 500-364743/1-A
Matrix: Water
Analysis Batch: 365351

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 364743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 12:23	1

Lab Sample ID: LCS 500-364743/2-A
Matrix: Water
Analysis Batch: 365026

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 364743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.520		mg/L		104	80 - 120
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.534		mg/L		107	80 - 120
Beryllium	0.0500	0.0509	^	mg/L		102	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Copper	0.250	0.264	^	mg/L		106	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120
Nickel	0.500	0.512		mg/L		102	80 - 120
Silver	0.0500	0.0523		mg/L		105	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120
Vanadium	0.500	0.508		mg/L		102	80 - 120
Zinc	0.500	0.538		mg/L		108	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-364743/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Soluble**
Analysis Batch: 365255 — **Prep Batch: 364743**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-364743/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Soluble**
Analysis Batch: 365351 — **Prep Batch: 364743**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.100	0.0976		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-364391/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364705 — **Prep Batch: 364391**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 09:43	1

Lab Sample ID: LCS 500-364391/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364705 — **Prep Batch: 364391**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		102	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-364849/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 365072 — **Prep Batch: 364849**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:35	1

Lab Sample ID: LCS 500-364849/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 365072 — **Prep Batch: 364849**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.0920		mg/L		92	80 - 120

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-364874/3
Matrix: Water
Analysis Batch: 364874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			12/13/16 11:24	1

Lab Sample ID: LCS 500-364874/4
Matrix: Water
Analysis Batch: 364874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	19.2		mg/L		96	80 - 120

Lab Sample ID: 500-120991-1 MS
Matrix: Water
Analysis Batch: 364874

Client Sample ID: MW-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	200		400	612		mg/L		103	75 - 125

Lab Sample ID: 500-120991-1 MSD
Matrix: Water
Analysis Batch: 364874

Client Sample ID: MW-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	200		400	659		mg/L		115	75 - 125	7	20

Lab Sample ID: 500-120991-3 MS
Matrix: Water
Analysis Batch: 364874

Client Sample ID: MW-03
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	150		400	588		mg/L		109	75 - 125

Lab Sample ID: 500-120991-3 MSD
Matrix: Water
Analysis Batch: 364874

Client Sample ID: MW-03
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	150		400	536		mg/L		96	75 - 125	9	20

Method: 9251 - Chloride

Lab Sample ID: MB 500-364267/12
Matrix: Water
Analysis Batch: 364267

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			12/08/16 19:42	1

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 500-364267/13
Matrix: Water
Analysis Batch: 364267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.5		mg/L		101	80 - 120

Lab Sample ID: MB 500-364768/12
Matrix: Water
Analysis Batch: 364768

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			12/12/16 20:08	1

Lab Sample ID: LCS 500-364768/45
Matrix: Water
Analysis Batch: 364768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.8		mg/L		102	80 - 120

Lab Sample ID: 500-120991-2 MS
Matrix: Water
Analysis Batch: 364267

Client Sample ID: MW-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	51		50.0	101		mg/L		99	75 - 125

Lab Sample ID: 500-120991-2 MSD
Matrix: Water
Analysis Batch: 364267

Client Sample ID: MW-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	51		50.0	102		mg/L		101	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-364294/1
Matrix: Water
Analysis Batch: 364294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/09/16 03:08	1

Lab Sample ID: LCS 500-364294/2
Matrix: Water
Analysis Batch: 364294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	286		mg/L		114	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 500-120991-1 MS — **Client Sample ID: MW-01**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 364294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	570		250	858		mg/L		114	75 - 125

Lab Sample ID: 500-120991-1 DU — **Client Sample ID: MW-01**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 364294

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	570		582		mg/L		1	5

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-364818/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/10/16 12:14	1

Lab Sample ID: LCS 500-364818/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.1		mg/L		101	80 - 120

Lab Sample ID: 500-120991-2 MS — **Client Sample ID: MW-02**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 364818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.98	F1	1000	6.15	F1	mg/L		0.5	75 - 125

Lab Sample ID: 500-120991-2 MSD — **Client Sample ID: MW-02**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 364818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.98	F1	1000	6.15	F1	mg/L		0.5	75 - 125	0	20

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-364534/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/06/16 18:48	1

Method: SM 4500 NO2 B - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 500-364534/4
Matrix: Water
Analysis Batch: 364534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: MB 500-364535/3
Matrix: Water
Analysis Batch: 364535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:50	1

Lab Sample ID: LCS 500-364535/4
Matrix: Water
Analysis Batch: 364535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: MB 500-364536/3
Matrix: Water
Analysis Batch: 364536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/09/16 09:30	1

Lab Sample ID: LCS 500-364536/4
Matrix: Water
Analysis Batch: 364536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: 500-120991-1 MS
Matrix: Water
Analysis Batch: 364534

Client Sample ID: MW-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.056		0.100	0.147		mg/L		91	75 - 125

Lab Sample ID: 500-120991-1 MSD
Matrix: Water
Analysis Batch: 364534

Client Sample ID: MW-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrite	0.056		0.100	0.147		mg/L		91	75 - 125	0	20

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-364773/4
Matrix: Water
Analysis Batch: 364773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/12/16 21:31	1

Lab Sample ID: LCS 500-364773/5
Matrix: Water
Analysis Batch: 364773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.924		mg/L		92	80 - 120

TestAmerica

THE LEADER IN ENVIR

TestAmerica Chicag
2417 Bond St.
University Park, IL 60
708-534-5200
Fax. 708-534-5211

500-120991 COC

Report To:		Bill To:	
Contact:	Rich Gnat	Contact:	
Company:	KPRG & Associates Inc.	Company:	
Address:	14665 W. Lisbon Rd. Suite 2B	Address:	
	Brookfield, WI, 53005		
Phone:	262-781-0475	Phone:	
Fax:		Fax:	
Email:		PO #:	

Lab Lot # 500-120991

Package Sealed	Samples Sealed
(Yes) No	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No N/A

Temperature °C of Cooler: 5.8

Within Hold Time	Preserv. Indicated
(Yes) No	Yes No (N/A)
pH Check OK	**Res Cl_2 Check OK**
(Yes) No	Yes No (N/A)

Sample Labels and COC Agree: (Yes) No COC not present

Sampler Name:	Client Project #	Refrg #												
Ian John Howieson	12313.2	# / Cont.												
Project Name:	TestAmerica Project Number:	Volume												
Waukegan Station Ash Ponds	50004763	Preserv.	7											
Project Location:	Date Required													
Waukegan, IL	Hard Copy: ___/___/___													
Lab PM: Eric Lang	Fax: ___/___/___													

Laboratory ID	MS-SW	Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	NO2	Additional Analyses / Remarks
5		MW-08	12-6-16	11:05	W	1	X	
					W			
					W			
					W			
NB N					W			
					W			
					W			
					W			
					W			
					W			
					W			
					W			

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
IJH	KPRG	12-6-16	18:10	FEDEX			
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
				Shirin Scott	TA-CHI	12/7/16	1010

Matrix Key

WW = Wastewater	SE = Sediment
W = Water	SO = Solid
S = Soil	DL = Drum Liquid
SL = Sludge	DS = Drum Solid
MS = Miscellaneous	L = Leachate
OL = Oil	W = Wipe
A = Air	O = _____

Container Key

1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

_____

Preservative Key

1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

PAGE 3 of 3

STL-8208 (0600)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 60484
708-534-5200
Fax. 708-534-5211

Report To:		Bill To:
Contact:	Rich Gnat	Contact:
Company:	KPRG & Associates Inc.	Company:
Address:	14665 W. Lisbon Rd. Suite 2B	Address:
	Brookfield, WI, 53005	
Phone:	262-781-0475	Phone:
Fax:		Fax:
Email:		PO #:

Lab Lot #: 500-120991

Package Sealed	Samples Sealed
(Yes) No	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No N/A

Temperature °C of Cooler: 5.8

Sampler Name:	Client Project #	Refrg #													Within Hold Time	Preserv. Indicated
Ian John Howieson	12313.2	# / Cont.													(Yes) No	Yes No (N/A)
Project Name:	**TestAmerica Project Number:**	Volume													pH Check OK	Res CL_2 Check OK
Waukegan Station Ash Ponds	60004763	Preserv.	7												(Yes) No	Yes No (N/A)
Project Location:	**Date Required**														Sample Labels and COC Agree	
Waukegan, IL	Hard Copy: ___/___/___														(Yes) No	COC not present
Lab PM: Eric Lang	Fax: ___/___/___															

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	NO2	Additional Analyses / Remarks
6		MW-06	12-6-16	15:57	W	1	X	
7		DUPLICATES	12-6-16	—	W	1	X	
					W			
					W			
NB N					W			
					W			
					W			
					W			
					W			
					W			
					W			
					W			

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
ISH	KPRG	12-6-16	18:10	FEDEX			
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
				[signature]	TA-CHI	12/7/16	1010

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

PAGE 2 of 3

STL-8208 (0600)

12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 604
708-534-5200
Fax. 708-534-5211

500-120991 COC

Report To:		Bill To:	
Contact:	Rich Gnat	Contact:	
Company:	KPRG & Associates Inc.	Company:	
Address:	14665 W. Lisbon Rd. Suite 2B	Address:	
	Brookfield, WI, 53005		
Phone:	262-781-0475	Phone:	
Fax:		Fax:	
Email:		PO #:	

Lab Lot # 500 - 120991

Package Sealed	Samples Sealed
(Yes) No	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No N/A

Temperature °C of Cooler: 5.0

Sampler Name:	Client Project #	Refrg #												
Ian John Howieson	12313.2	# / Cont.												
Project Name:	**TestAmerica Project Number:**	Volume												
Waukegan Station Ash Ponds	50004763	Preserv.	7											
Project Location:	**Date Required**													
Waukegan, IL	Hard Copy: ___/___/___													
Lab PM: Eric Lang	Fax: ___/___/___													

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	NO2
5 6		MW-06	12-6-16	15:57	W	1	X
6		DUPLICATES	12-6-16	—	W	1	X
					W		
					W		
NB N					W		
					W		
					W		
					W		
					W		
					W		
					W		
					W		

Sample Labels and COC Agree: (Yes) No COC not present

Additional Analyses / Remarks

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
ISH	KPRG	12-6-16	18:10	FEDEX			
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
				Sherri Scott	TA-CHI	12/7/16	1010

Matrix Key
WW = Wastewater, SE = Sediment, W = Water, SO = Solid, S = Soil, DL = Drum Liquid, SL = Sludge, DS = Drum Solid, MS = Miscellaneous, L = Leachate, OL = Oil, W = Wipe, A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

PAGE 2 of 3

STL-8208 (0600)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chica
2417 Bond St.
University Park, IL 6(
708-534-5200
Fax. 708-534-5211

500-120991 COC

Report To:		Bill To:	
Contact:	Rich Gnat	Contact:	
Company:	KPRG & Associates Inc.	Company:	
Address:	14665 W. Lisbon Rd. Suite 2B	Address:	
	Brookfield, WI, 53005		
Phone:	262-781-0475	Phone:	
Fax:		Fax:	
Email:		PO #:	

Lab Lot # 500-120991

Packages Sealed: Yes / No — Samples Sealed: Yes / No

Received on Ice: Yes / No — Samples Intact: Yes / No / N/A

Temperature °C of Cooler: 3.2, 2.8, 2.3, 2.7

Within Hold Time: Yes / No — Preserv. Indicated: Yes / No / N/A

pH Check OK: Yes / No — Res Cl_2 Check OK: Yes / No / N/A

Sample Labels and COC Agree: Yes / No — COC not present

Sampler Name:	Client Project #	Refrg #
Ian John Howieson	12313.2	# / Cont.
Project Name:	**TestAmerica Project Number:**	Volume
Waukegan Station Ash Ponds	50004763	Preserv.
Project Location:	**Date Required**	
Waukegan, IL	Hard Copy: ___/___/___	
Lab PM: Eric Lang	Fax: ___/___/___	

	Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Metals Dissolved	Cl, TDS, SO4, Fl,	NO2	NO3 - NO2	Cyanide	Perchlorate	BTEX	Additional Analyses / Remarks
1	1		MW-01	12-5-16	09:24	W	8	X	X	—	X	X	X	X	
2	2		MW-02	12-5-16	11:06	W	8	X	X	—	X	X	X	X	
3	3		MW-03	12-5-16	12:33	W	8	X	X	—	X	X	X	X	
4	4		MW-04	12-5-16	14:34	W	8	X	X	—	X	X	X	X	
7	NB N ~~6.5~~	12/5/16	MW-05	12-7-16	11:01	W	9	X	X	X	X	X	X	X	
	5		MW-06	12-6-16	15:57	W	8	X	X	—	X	X	X	X	
8	~~7~~	12/5/16	MW-07	12-7-16	09:56	W	9	X	X	X	X	X	X	X	
	6		Duplicate	12-6-16		W	8	X	X		X	X	X	X	
						W									
						W									
						W									
						W									

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
ISH	KPRG	12-8-16	15:15	[illegible]	TA-CHI	12/8/16	1515
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

Matrix Key

WW = Wastewater	SE = Sediment
W = Water	SO = Solid
S = Soil	DL = Drum Liquid
SL = Sludge	DS = Drum Solid
MS = Miscellaneous	L = Leachate
OL = Oil	W = Wipe
A = Air	O = _____

Container Key

1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
6. Widemouth Glass
8. Other _____

Preservative Key

1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received ___/___/___

Courier:

Hand Delivered ☐

Bill of Lading:

PAGE 2 of 3

STL-8208 (0600) MWG13-15_58547

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 60484
708-534-5200
Fax. 708-534-5211

Report To:		Bill To:
Contact:	Rich Gnat	Contact:
Company:	KPRG & Associates Inc.	Company:
Address:	14665 W. Lisbon Rd. Suite 2B	Address:
	Brookfield, WI, 53005	
Phone:	262-781-0475	Phone:
Fax:		Fax:
Email:		PO #:

Lab Lot # 500-120991

Package Sealed	Samples Sealed
(Yes) No	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No N/A

Temperature °C of Cooler 4.8

Sampler Name:	Client Project #	Refrg #
Ian John Howieson	12313.2	# / Cont.
Project Name:	**TestAmerica Project Number:**	Volume
Waukegan Station Ash Ponds	60004763	Preserv. 7
Project Location:	**Date Required**	
Waukegan, IL	Hard Copy: ___/___/___	
Lab PM: Eric Lang	Fax: ___/___/___	

Within Hold Time	Preserv. Indicated
(Yes) No	(Yes) No N/A
pH Check OK	**Res Cl_2 Check OK**
(Yes) No	(Yes) No N/A

Sample Labels and COC Agree
(Yes) No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	NO2	Additional Analyses / Remarks
1		MW-01	12-5-16	09:24	W	1	X	
2		MW-02	12-5-16	11:06	W	1	X	
3		MW-03	12-5-16	12:33	W	1	X	
4		MW-04	12-5-16	14:34	W	1	X	
NB N					W			
					W			
					W			
					W			
					W			
					W			
					W			
					W			

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
IJH	KPRG	12-5-16	18:10	FEDEX			
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
					TA	12/06/16	1030

Matrix Key
WW = Wastewater, W = Water, S = Soil, SL = Sludge, MS = Miscellaneous, OL = Oil, A = Air, SE = Sediment, SO = Solid, DL = Drum Liquid, DS = Drum Solid, L = Leachate, W = Wipe, O = _____

Container Key
1. Plastic, 2. VOA Vial, 3. Sterile Plastic, 4. Amber Glass, 5. Widemouth Glass, 6. Other _____

Preservative Key
1. HCl, Cool to 4°, 2. H_2SO_4, Cool to 4°, 3. HNO_3, Cool to 4°, 4. NaOH, Cool to 4°, 5. NaOH/Zn, Cool to 4°, 6. Cool to 4°, 7. None

COMMENTS:
500-120991 COC

Date Received 12,06,16
Courier: ✓
Hand Delivered ☐
Bill of Lading:

PAGE 1 of 1

STL-8208 (0600)

12

ORIGIN ID:FEPA (630) 325-1300
IAN JOHN HOWIESON

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 06DEC16
ACTWGT: 21.30 LB
CAD: 006984083/SSFE1722
DIMS: 16x10x16 IN

BILL THIRD PARTY

TO ERIC LANG
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:

INV:
PO: DEPT:

500-120991 Waybill

FedEx Express

THU - 08 DEC 10:30A
MORNING 2DAY

TRK# 0201 7848 9321 6473

79 JOTA

60484
IL-US ORD

28 pt.

12

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Lang, Eric A.	Carrier Tracking No(s)	COC No: 500-81257 1
Client Contact: Shipping/Receiving	Phone	E-Mail: eric.lang@testamericainc.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Illinois		Job #: 500-120991-1
Address: 880 Riverside Parkway, .	Due Date Requested: 12/16/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email:	WO #			
Project Name: Waukegan Station CCA	Project # 50004763			
Site: NRG Midwest Generation Waukegan	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	314.0/ Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-01 (500-120991-1)	12/5/16	09:24 Central		Water			X	1	
MW-02 (500-120991-2)	12/5/16	11:06 Central		Water			X	1	
MW-03 (500-120991-3)	12/5/16	12:33 Central		Water			X	1	
MW-04 (500-120991-4)	12/5/16	14:34 Central		Water			X	1	
MW-06 (500-120991-5)	12/6/16	15:57 Central		Water			X	1	
Duplicate (500-120991-6)	12/6/16	Central		Water			X	1	
MW-05 (500-120991-7)	12/7/16	11:01 Central		Water			X	1	
MW-07 (500-120991-8)	12/7/16	09:56 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank: 2 | Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Eileen Scott	12/8/16 1610	TA-CHI		12/9/16 09:50	TA-CHI
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: -0.6

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-120991-1

Login Number: 120991
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

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	4.8,5.8,3.2,2.8,2.3,2.7
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 (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.	True	
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	

13

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-120991-1

Login Number: 120991
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 12/10/16 04:53 PM

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.	N/A	
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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

13

Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-120991-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	200060	03-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

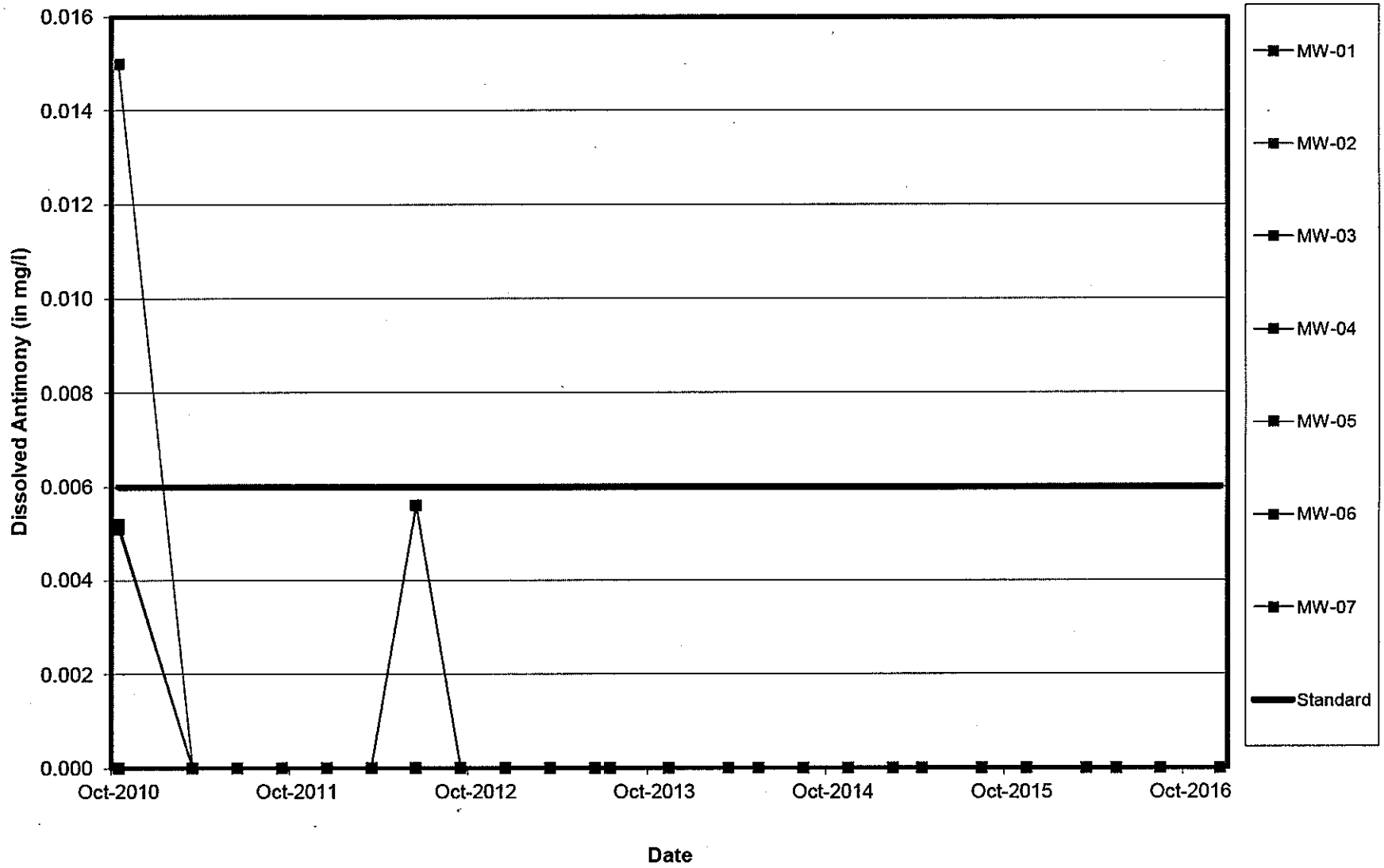
Analysis Method	Prep Method	Matrix	Analyte
314.0		Water	Perchlorate

14

ATTACHMENT 3
Time Versus Concentration Curves

Midwest Generation Waukegan Station, Waukegan, IL

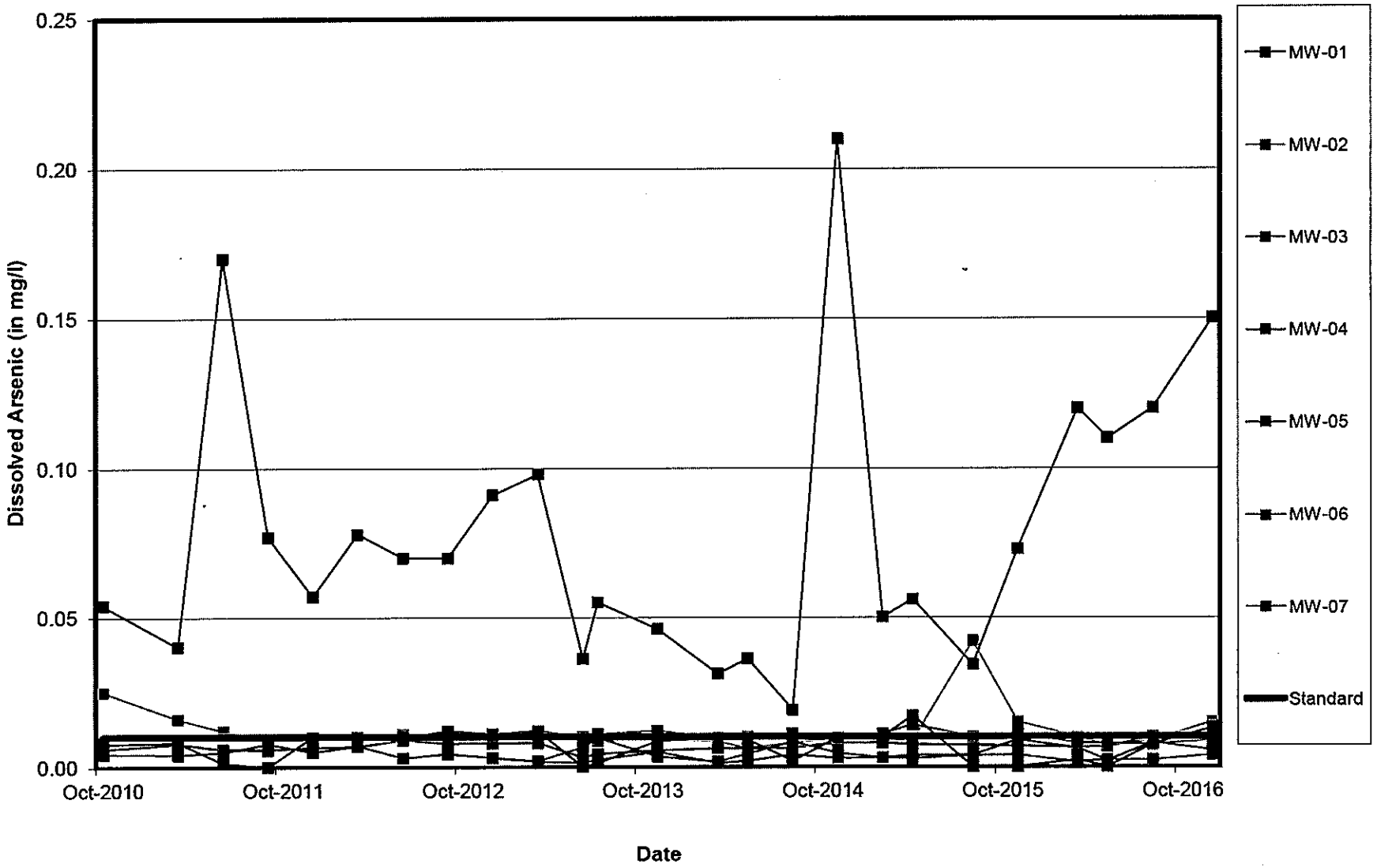
Dissolved Antimony vs. Time



MWG13-15_58555

Midwest Generation Waukegan Station, Waukegan, IL

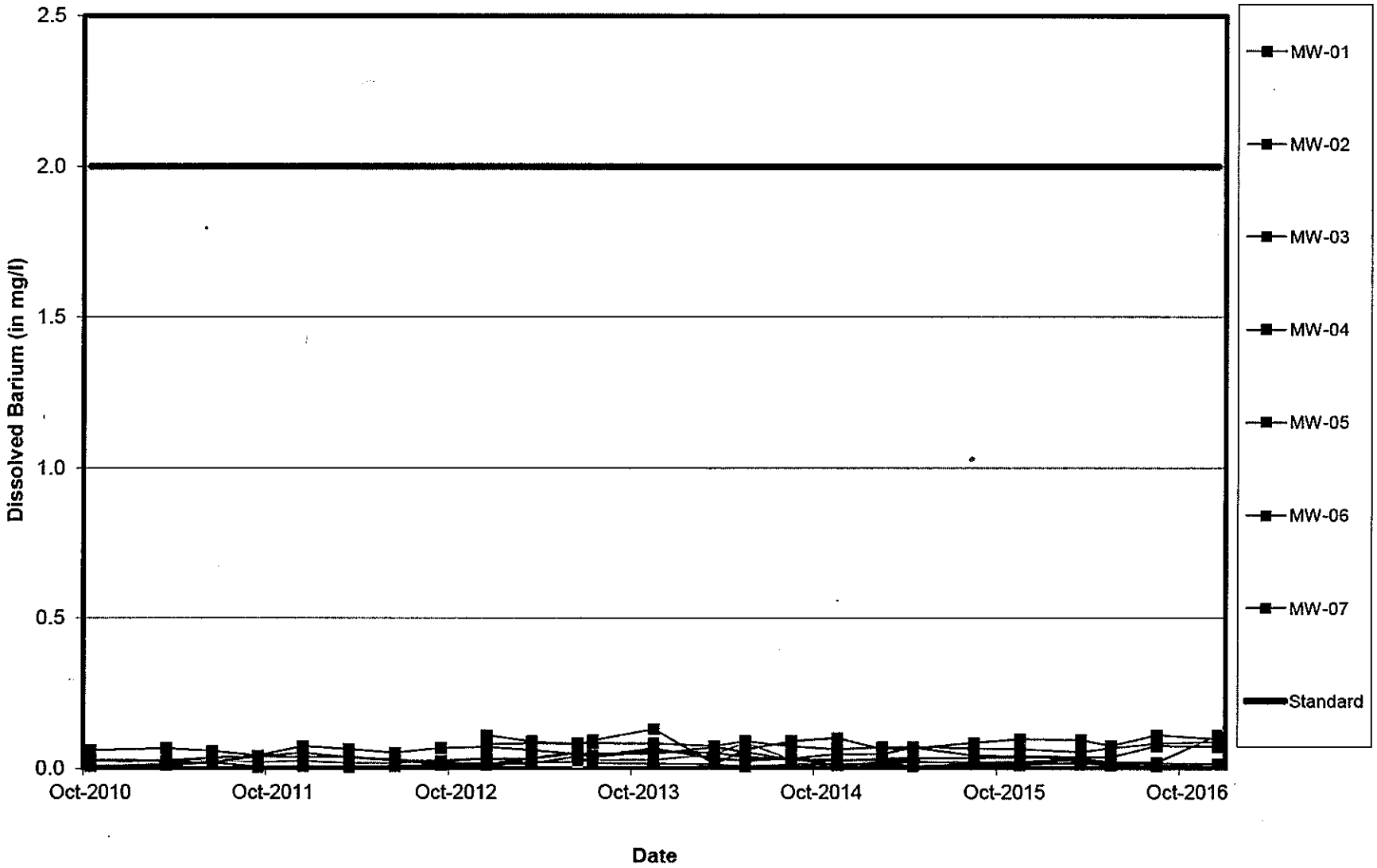
Dissolved Arsenic vs. Time



MWG13-15_58556

Midwest Generation Waukegan Station, Waukegan, IL

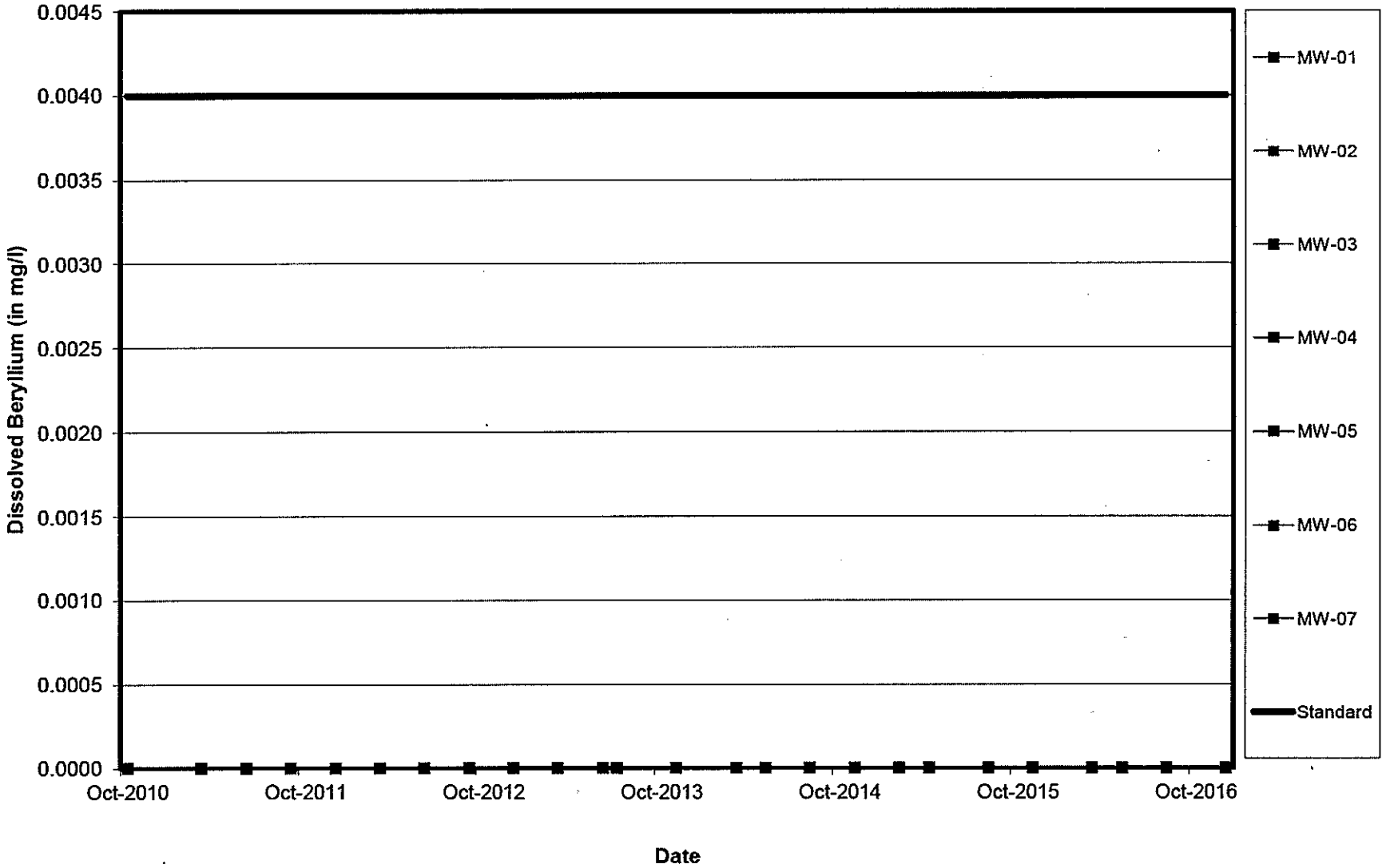
Dissolved Barium vs. Time



MWG13-15_58557

Midwest Generation Waukegan Station, Waukegan, IL

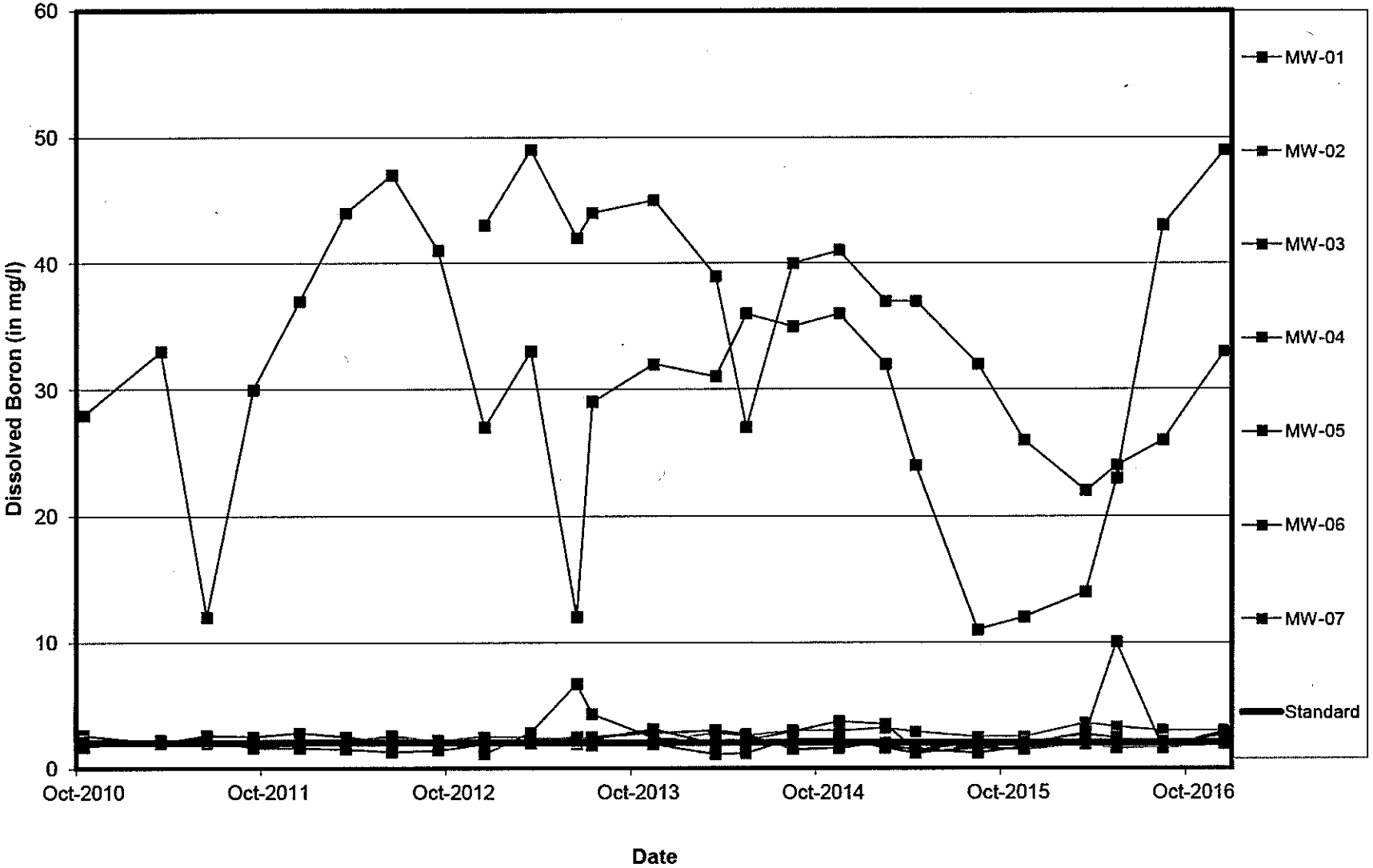
Dissolved Beryllium vs. Time



MWG13-15_58558

Midwest Generation Waukegan Station, Waukegan, IL

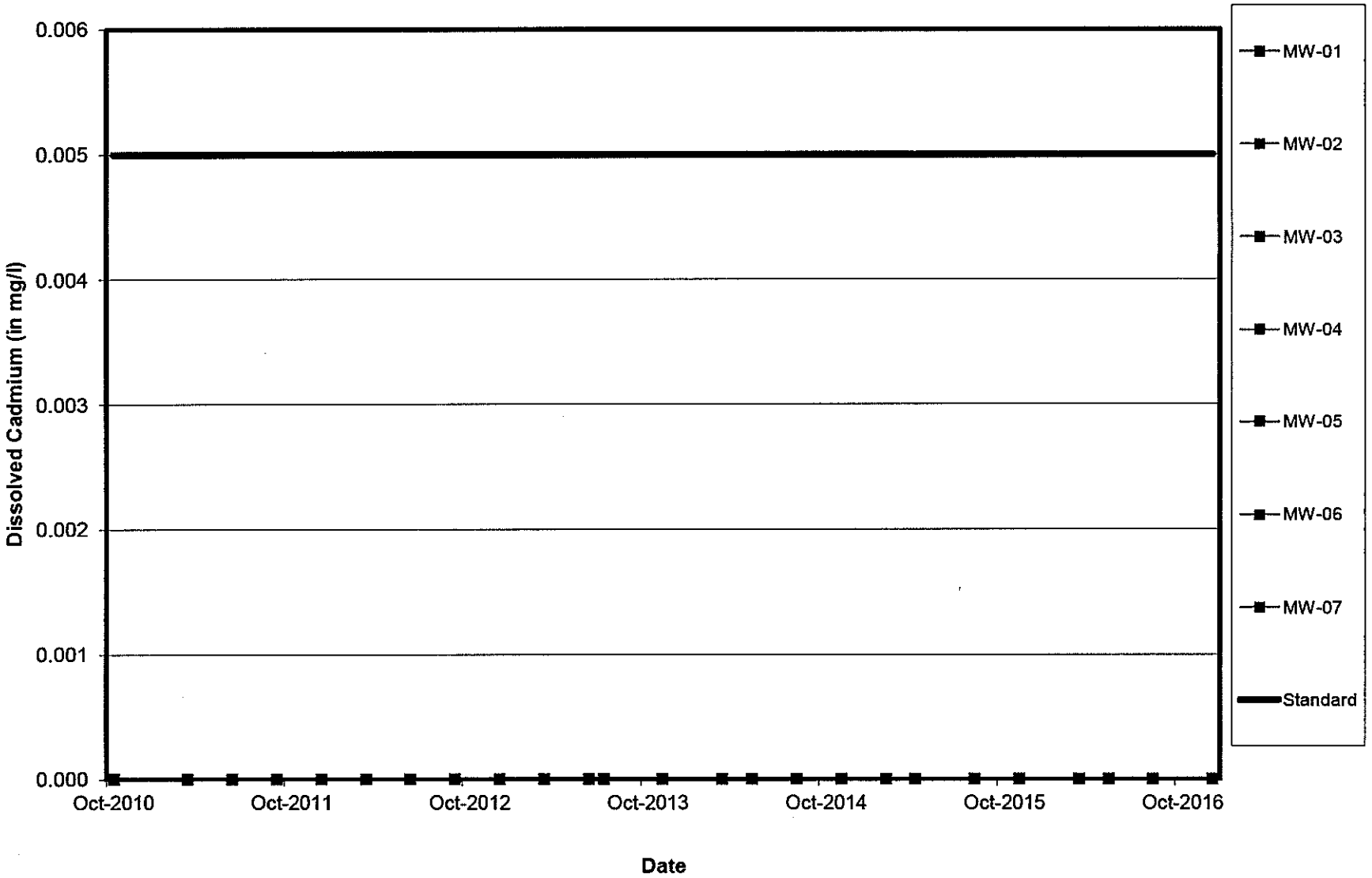
Dissolved Boron vs. Time



MWG13-15_58559

Midwest Generation Waukegan Station, Waukegan, IL

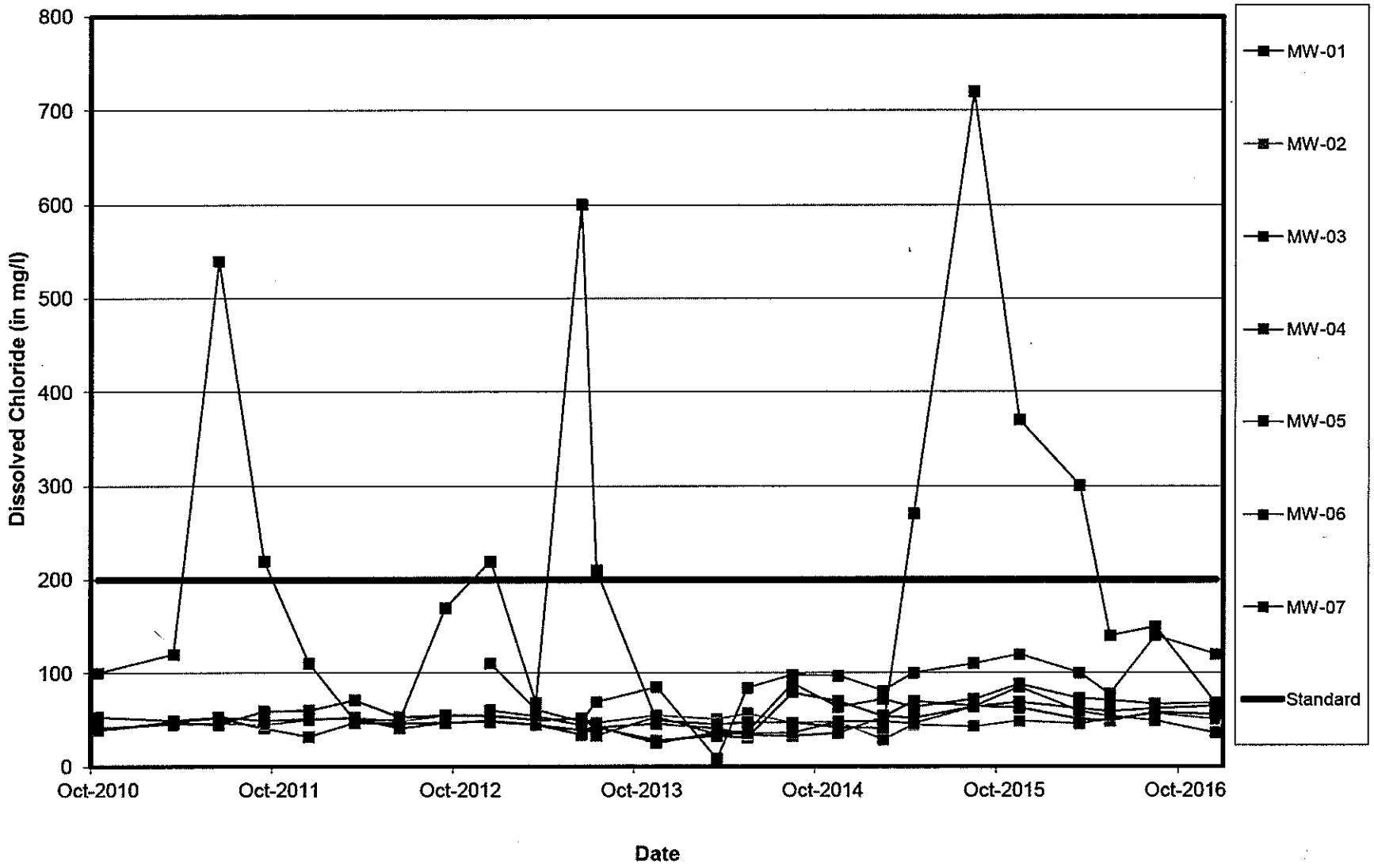
Dissolved Cadmium vs. Time



MWG13-15_58560

Midwest Generation Waukegan Station, Waukegan, IL

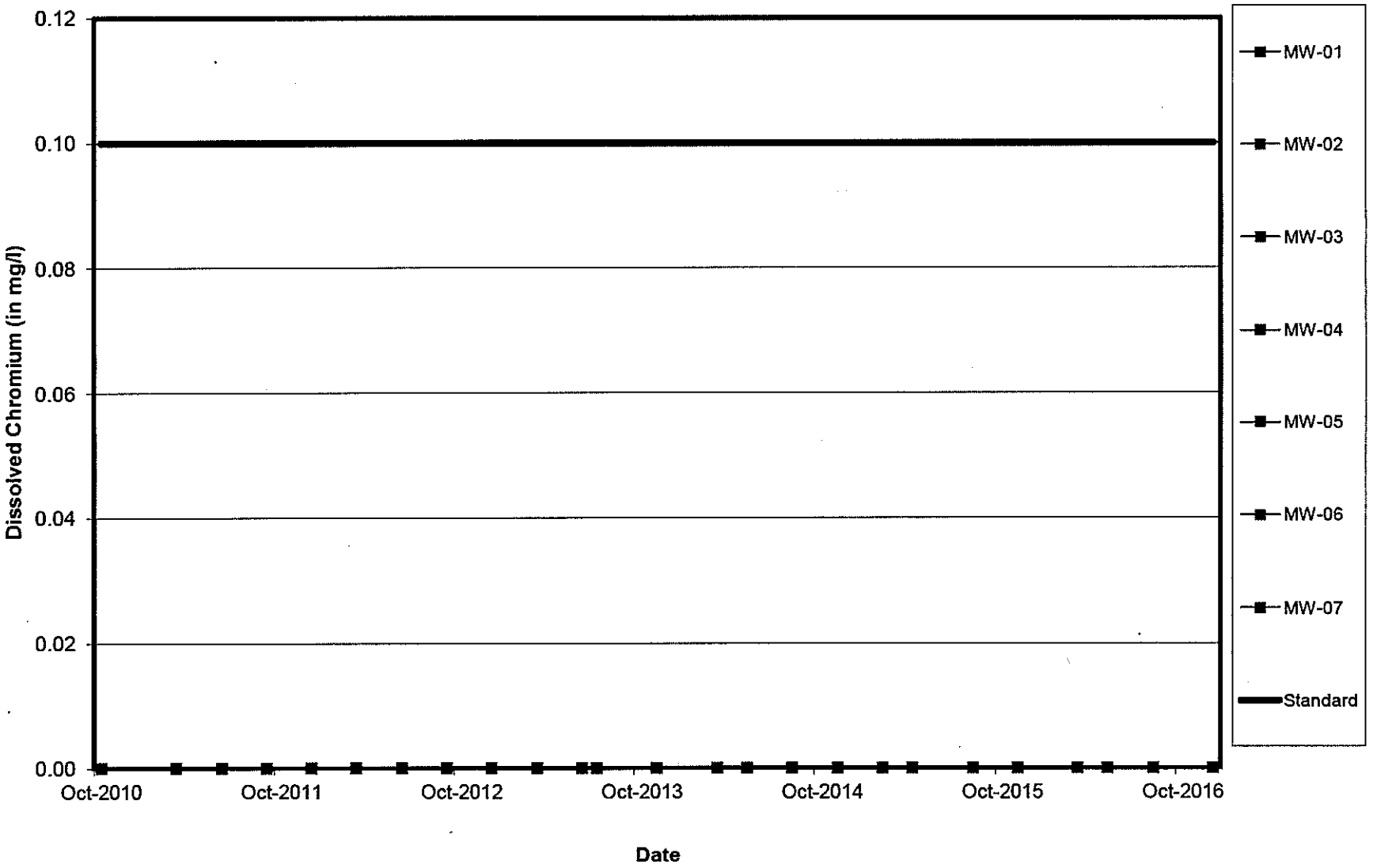
Dissolved Chloride vs. Time



MWG13-15_58561

Midwest Generation Waukegan Station, Waukegan, IL

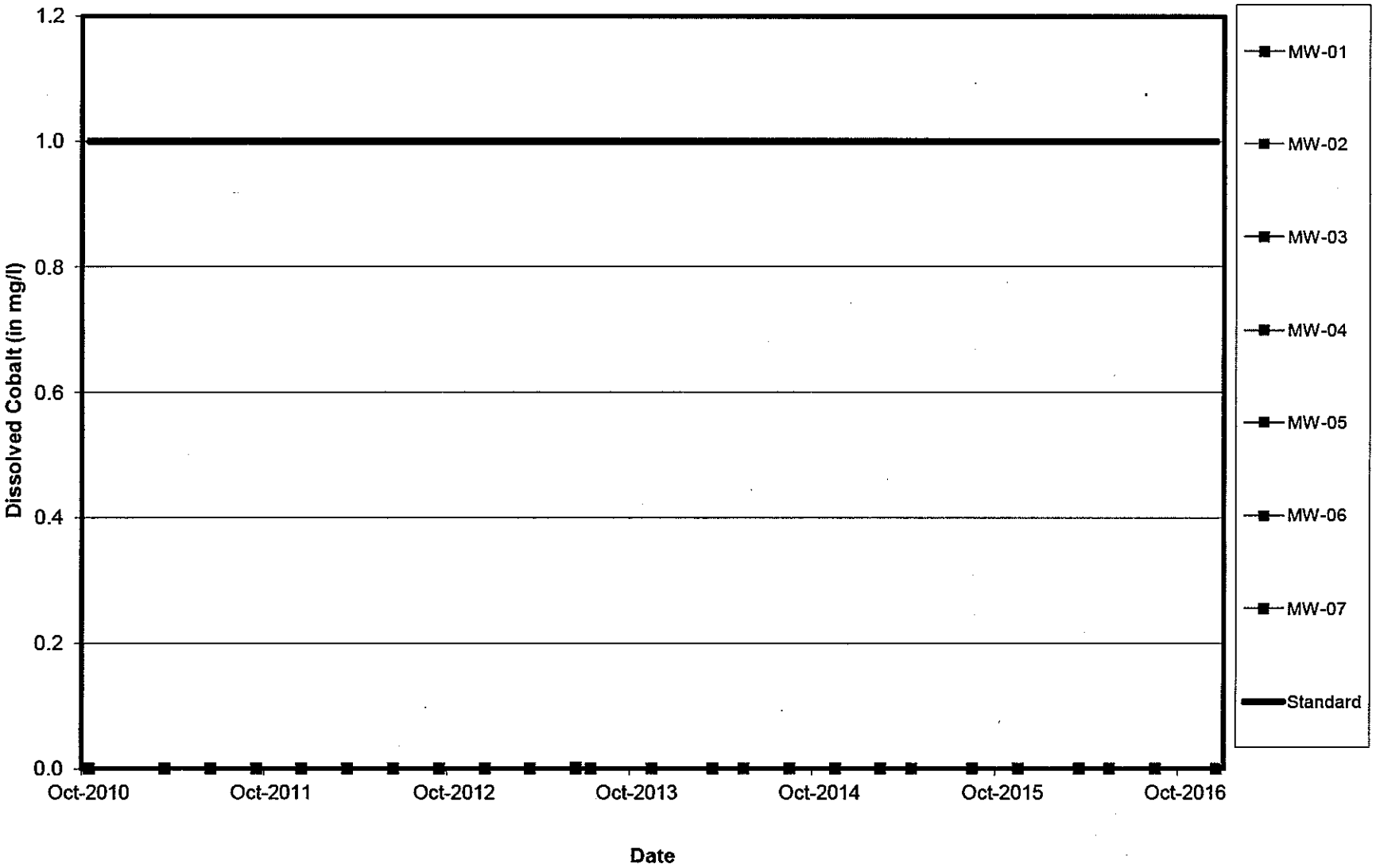
Dissolved Chromium vs. Time



MWG13-15_58562

Midwest Generation Waukegan Station, Waukegan, IL

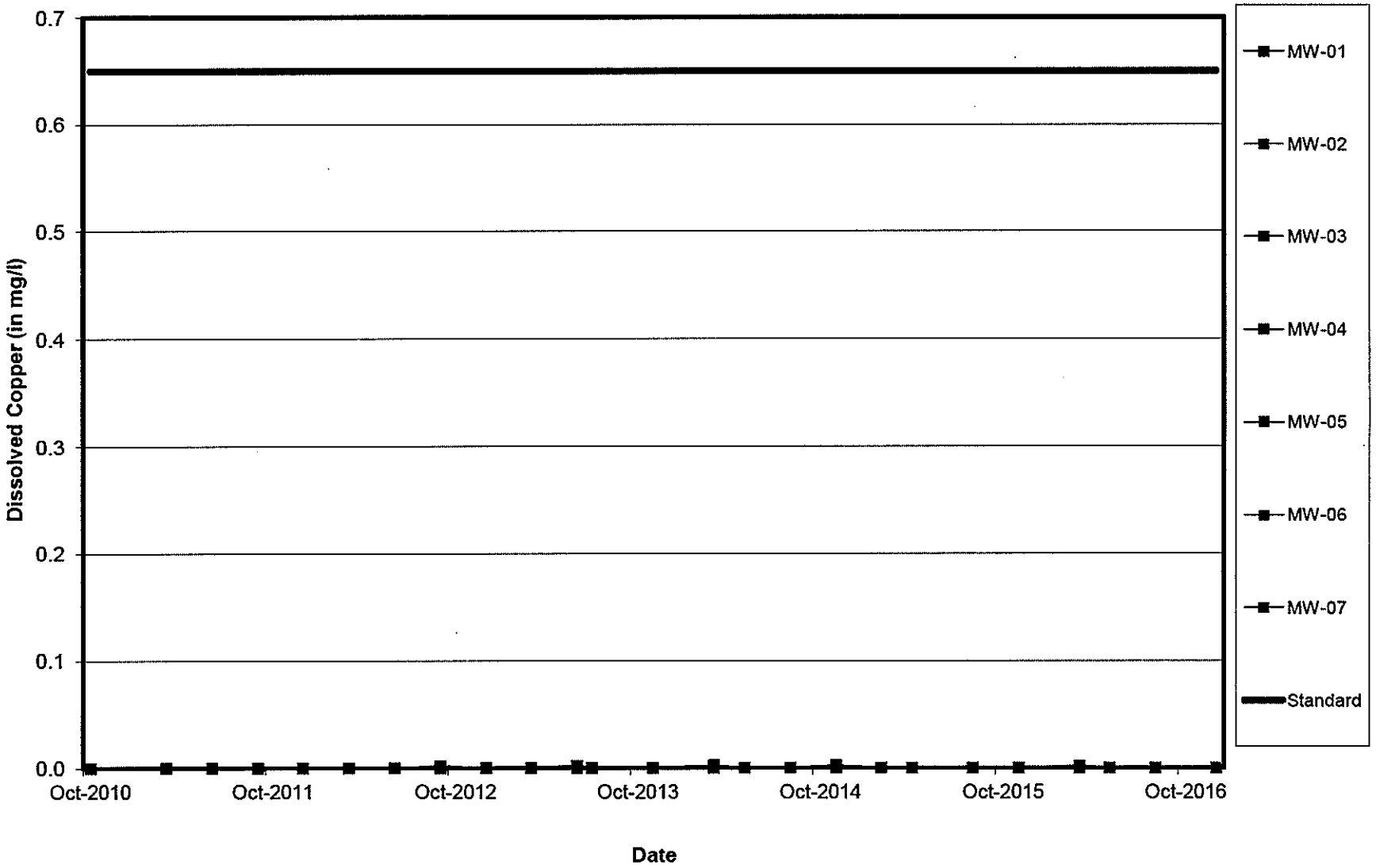
Dissolved Cobalt vs. Time



MWG13-15_58563

Midwest Generation Waukegan Station, Waukegan, IL

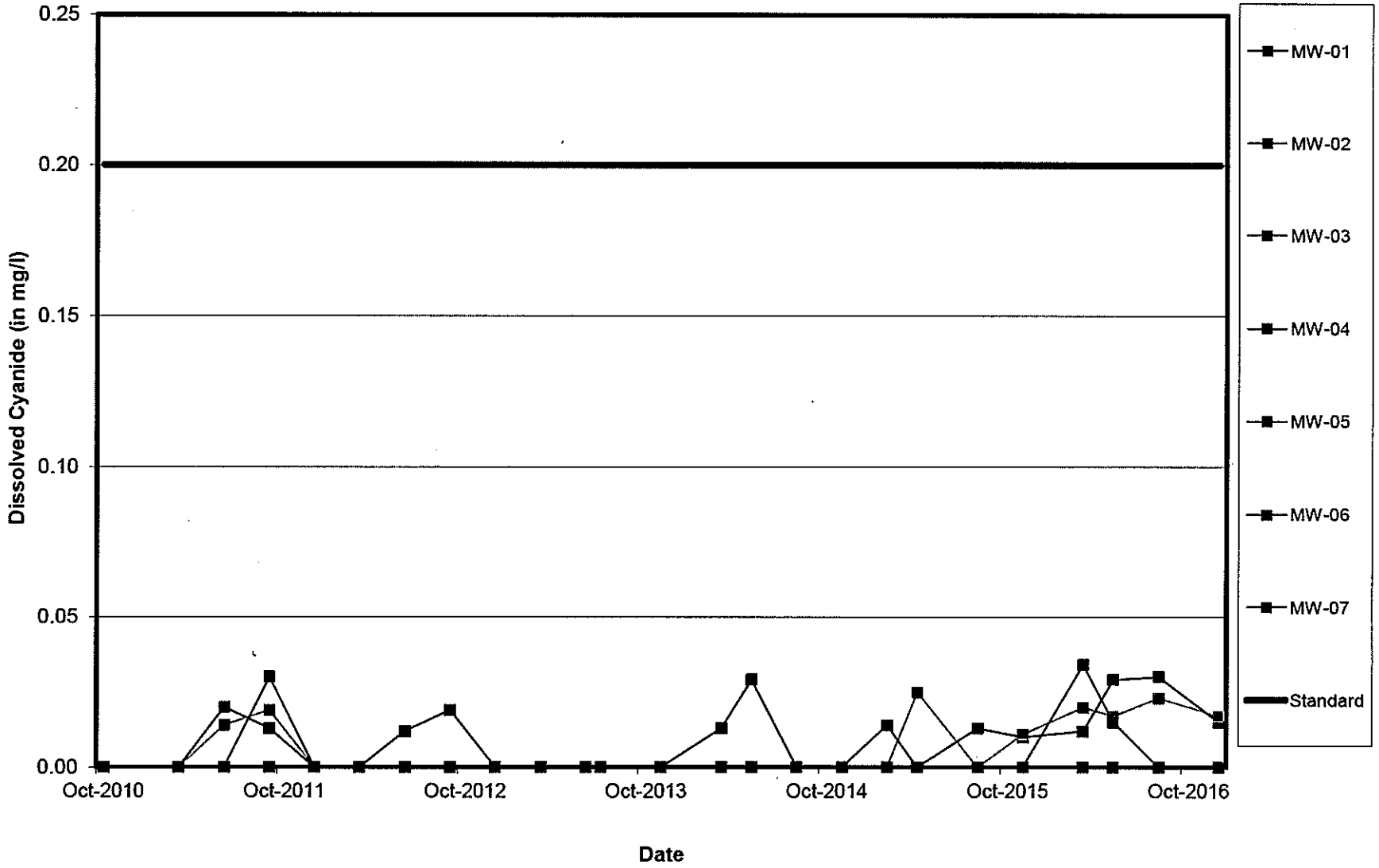
Dissolved Copper vs. Time



MWG13-15_58564

Midwest Generation Waukegan Station, Waukegan, IL

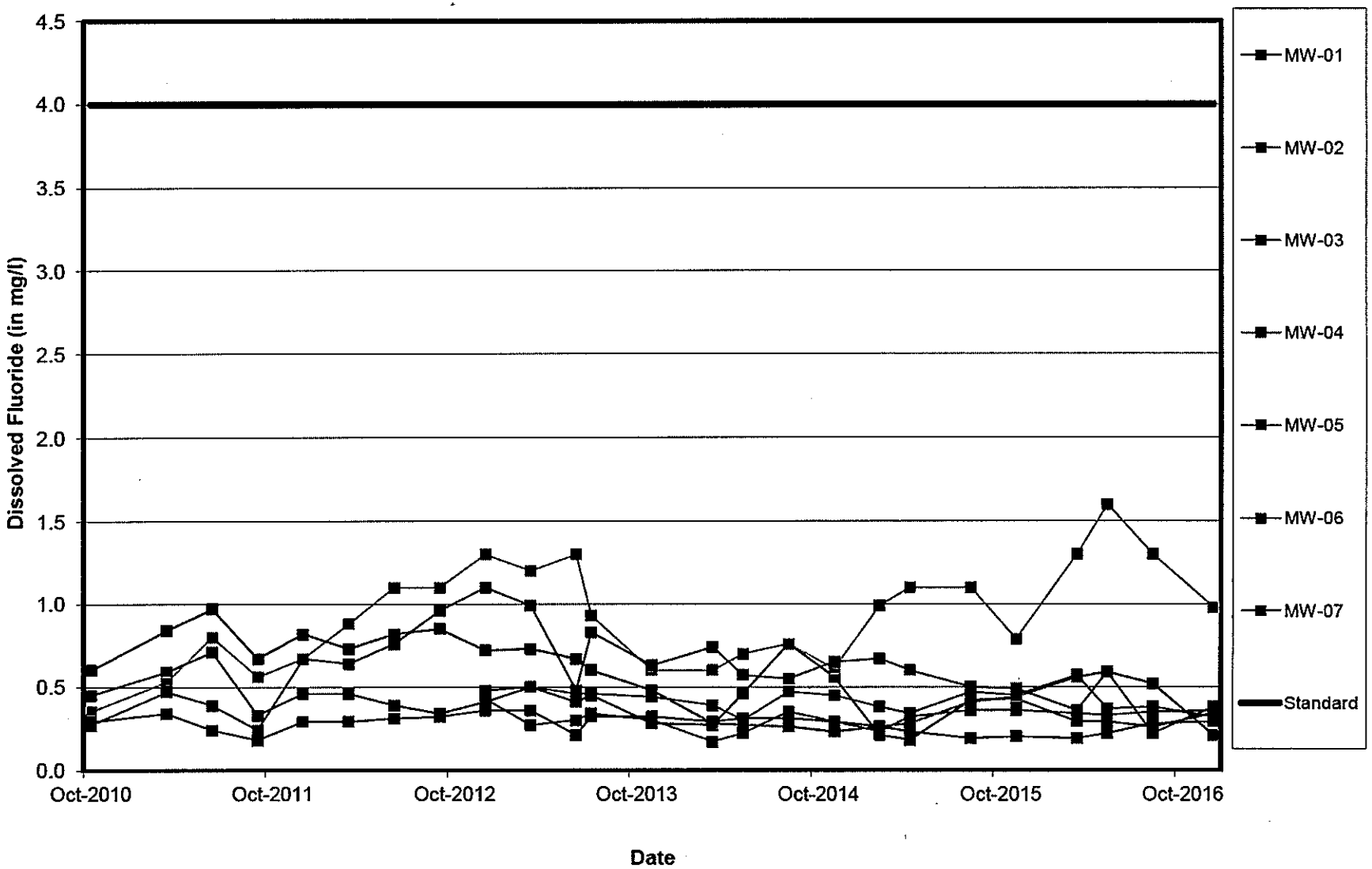
Dissolved Cyanide vs. Time



MWG13-15_58565

Midwest Generation Waukegan Station, Waukegan, IL

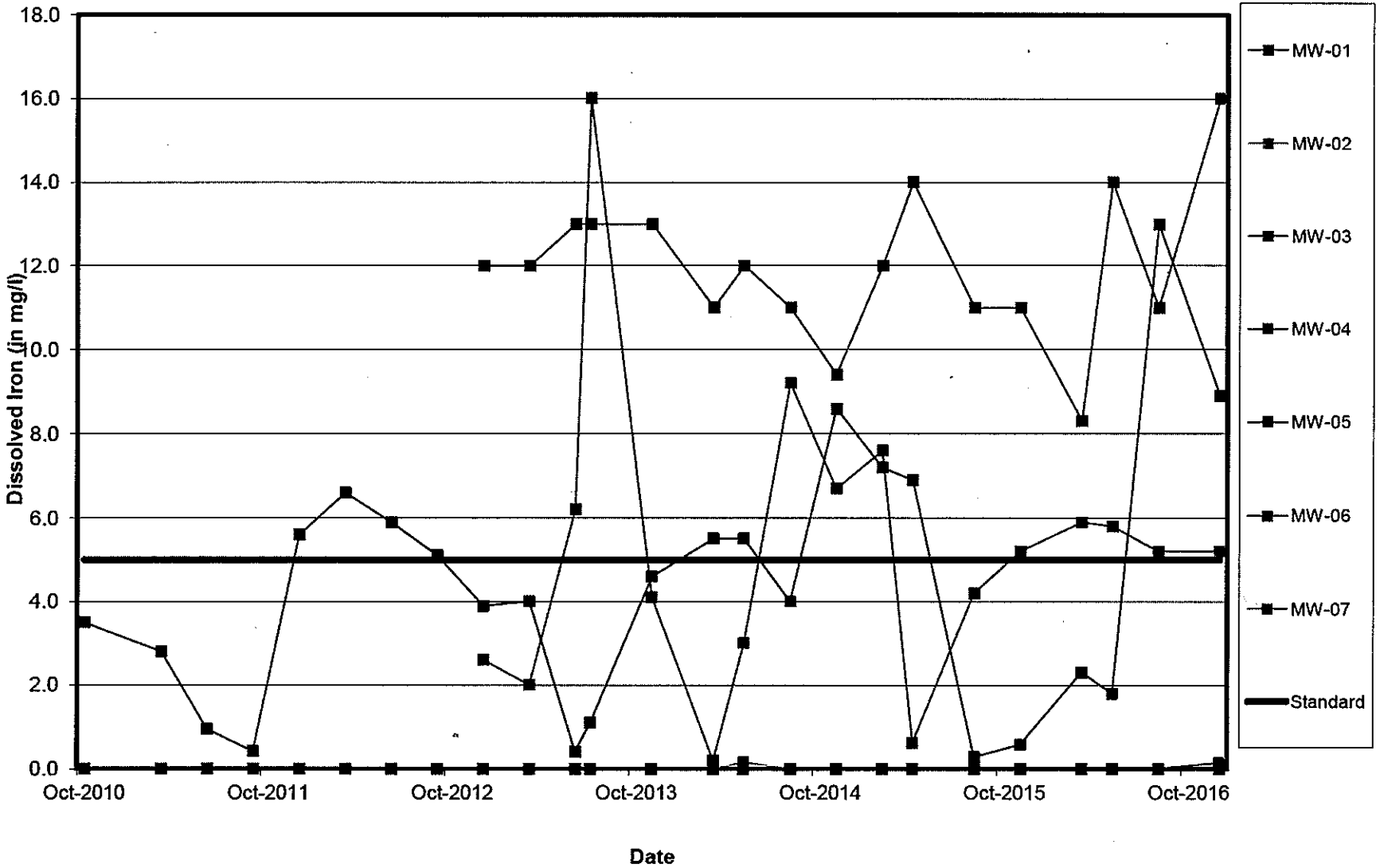
Dissolved Fluoride vs. Time



MWG13-15_58566

Midwest Generation Waukegan Station, Waukegan, IL

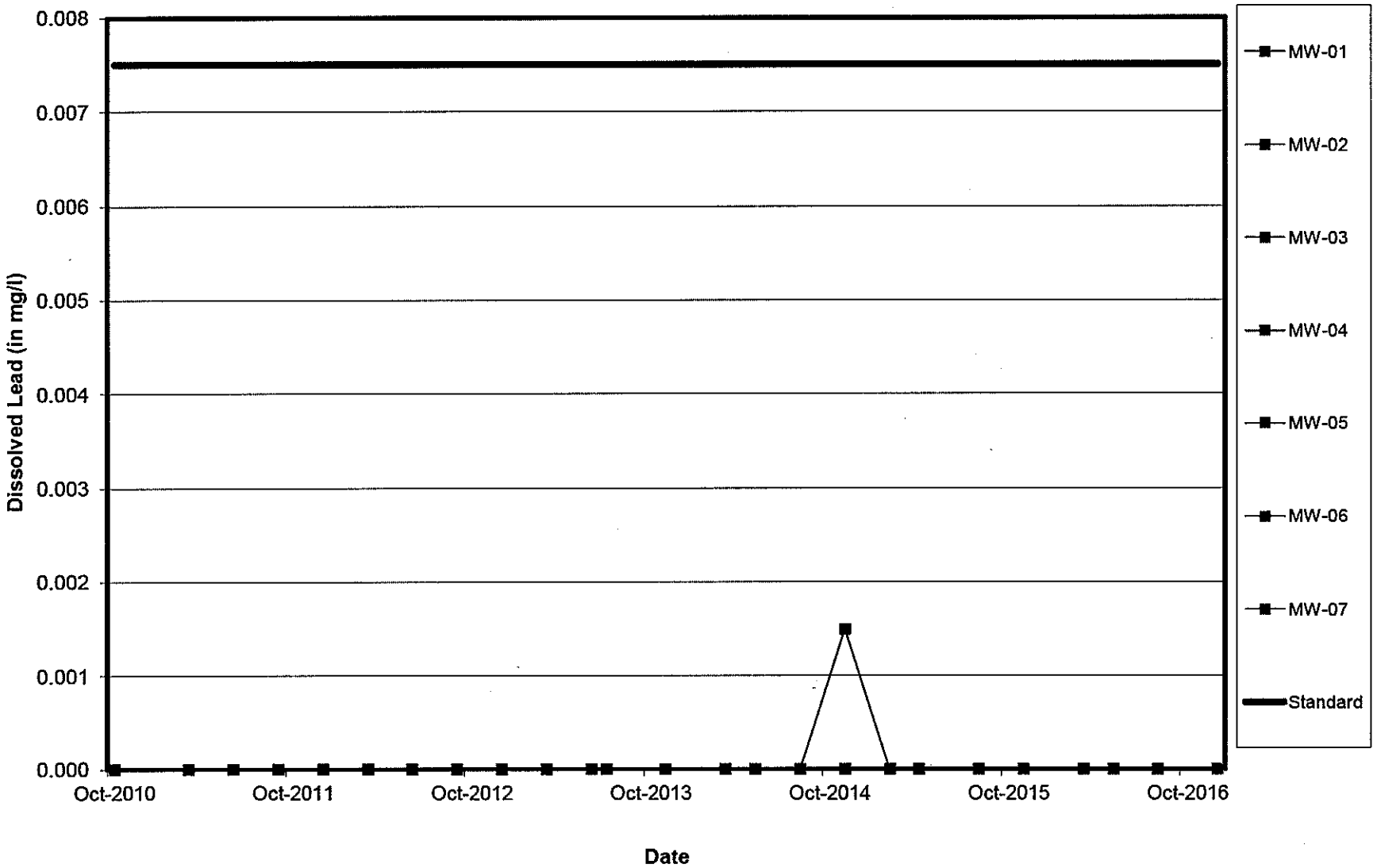
Dissolved Iron vs. Time



MWG13-15_58567

Midwest Generation Waukegan Station, Waukegan, IL

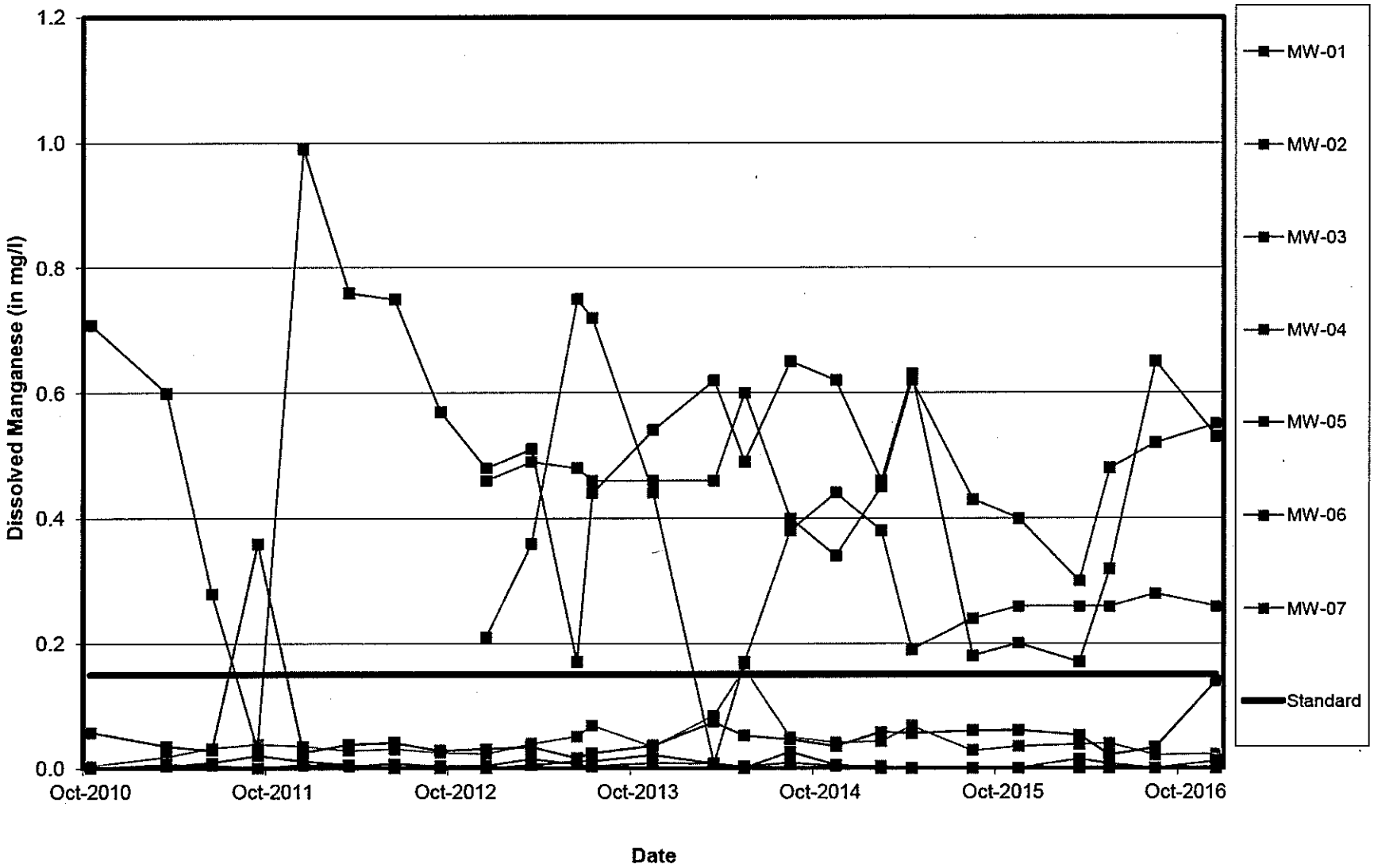
Dissolved Lead vs. Time



MWG13-15_58568

Midwest Generation Waukegan Station, Waukegan, IL

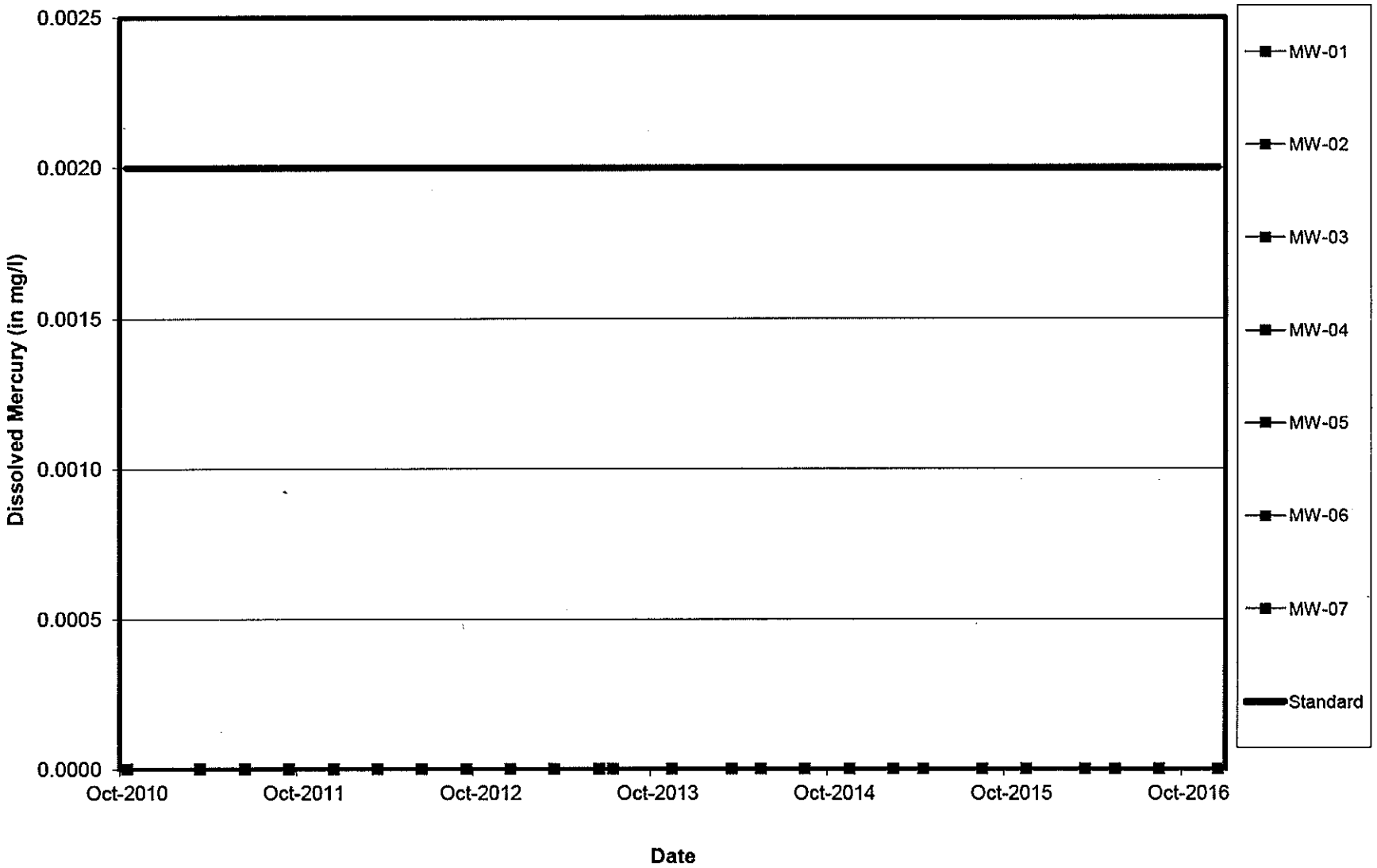
Dissolved Manganese vs. Time



MWG13-15_58569

Midwest Generation Waukegan Station, Waukegan, IL

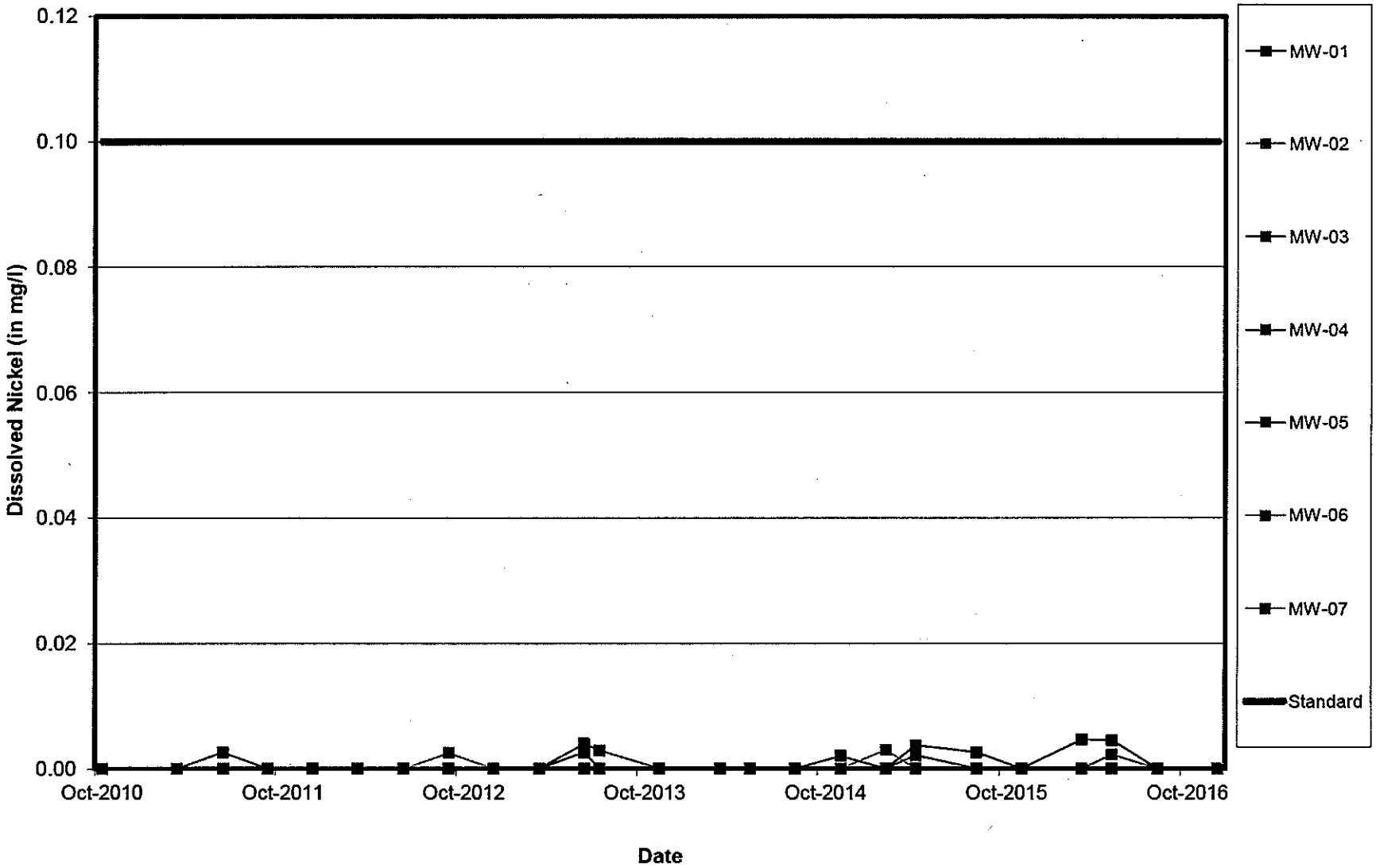
Dissolved Mercury vs. Time



MWG13-15_58570

Midwest Generation Waukegan Station, Waukegan, IL

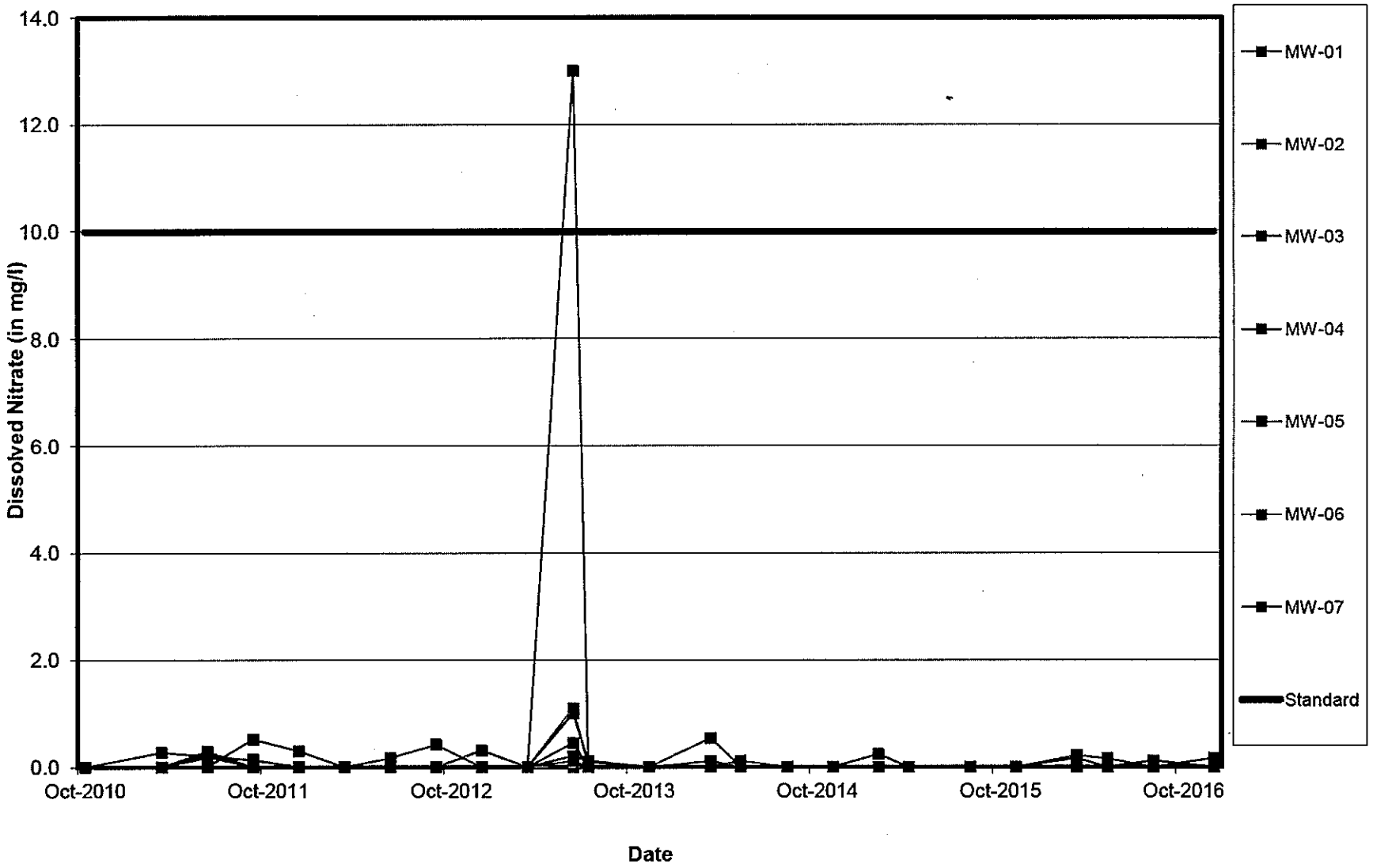
Dissolved Nickel vs. Time



MWG13-15_58571

Midwest Generation Waukegan Station, Waukegan, IL

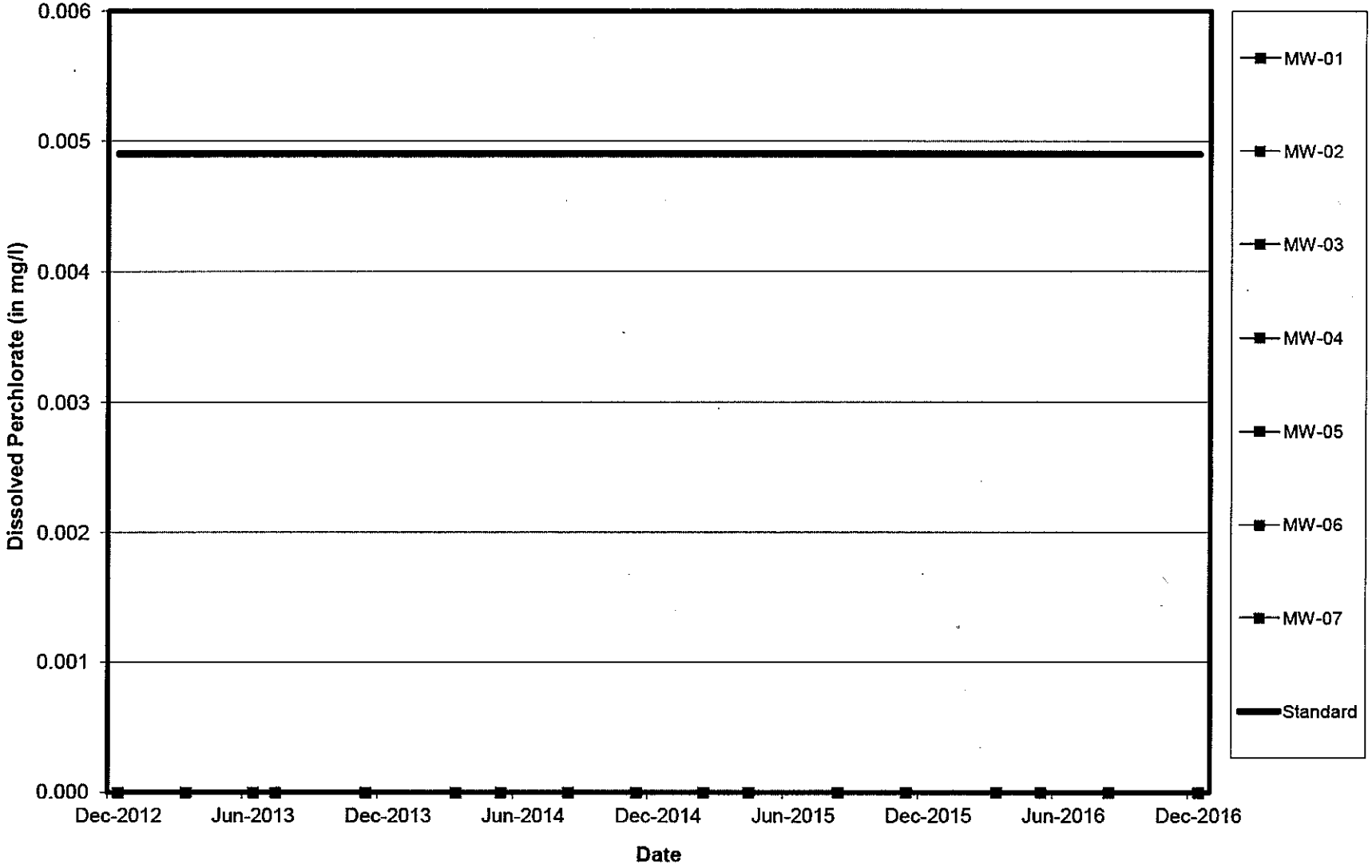
Dissolved Nitrate vs. Time



MWG13-15_58572

Midwest Generation Waukegan Station, Waukegan, IL

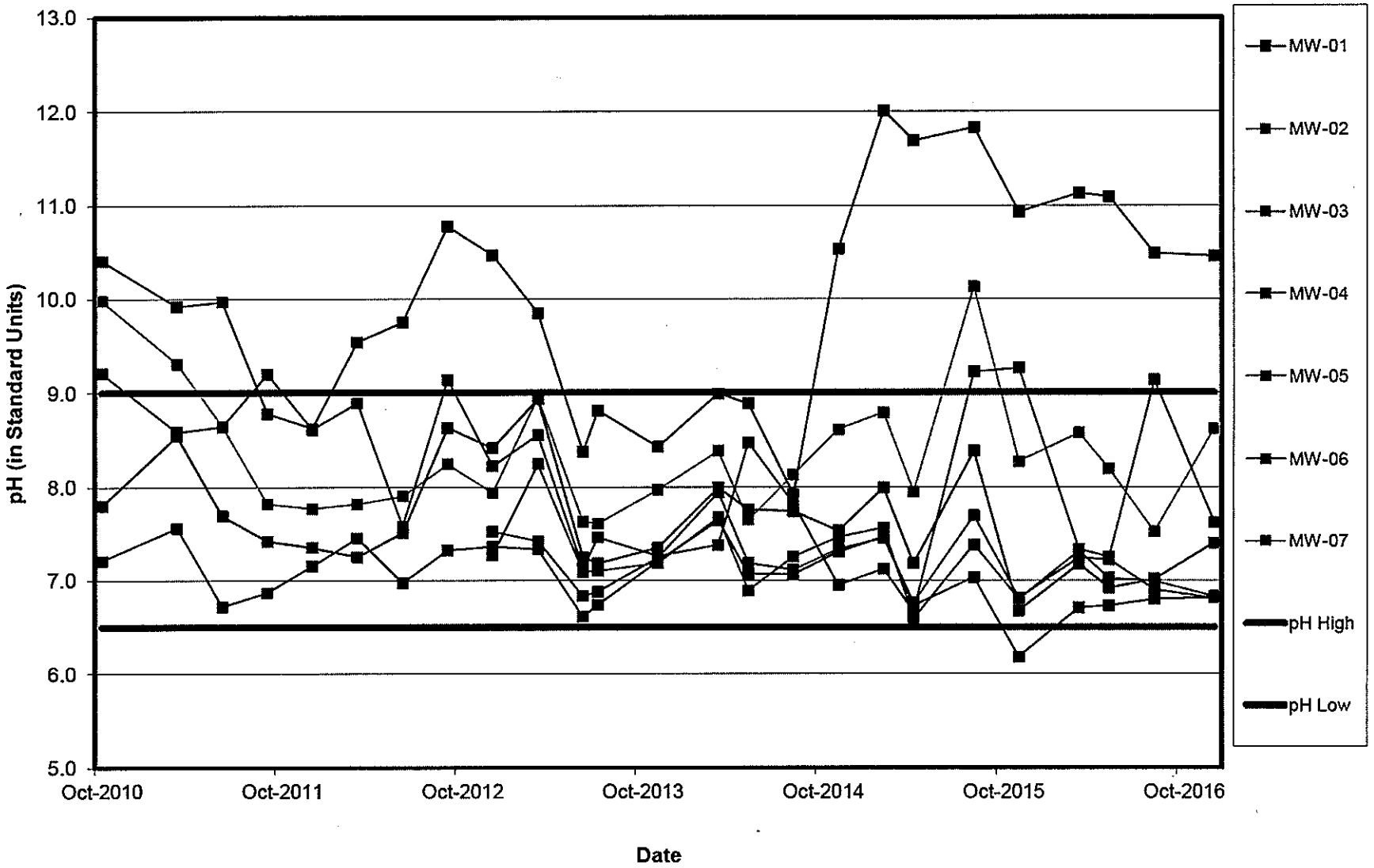
Dissolved Perchlorate vs. Time



MWG13-15_58573

Midwest Generation Waukegan Station, Waukegan, IL

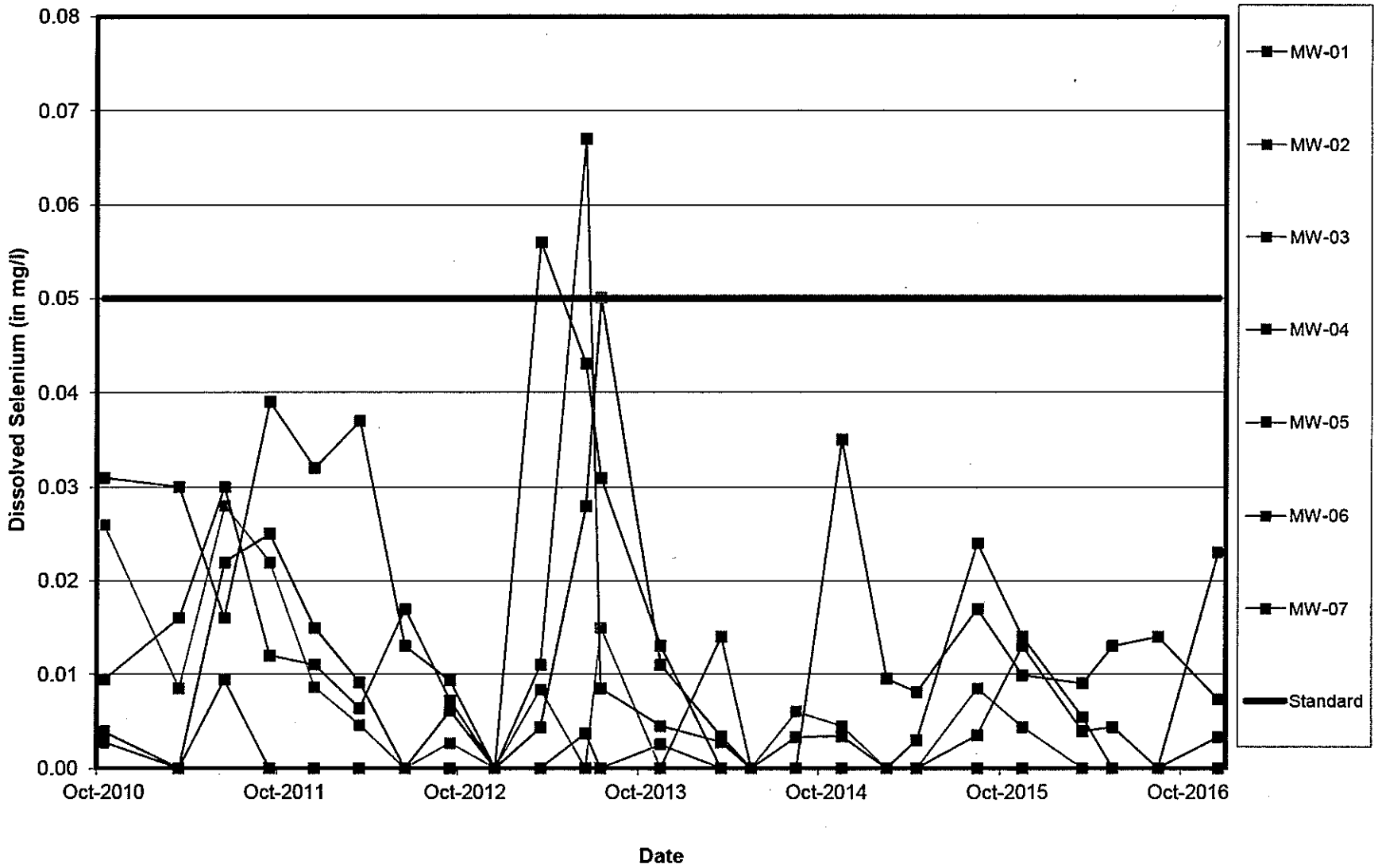
pH vs. Time



MWG13-15_58574

Midwest Generation Waukegan Station, Waukegan, IL

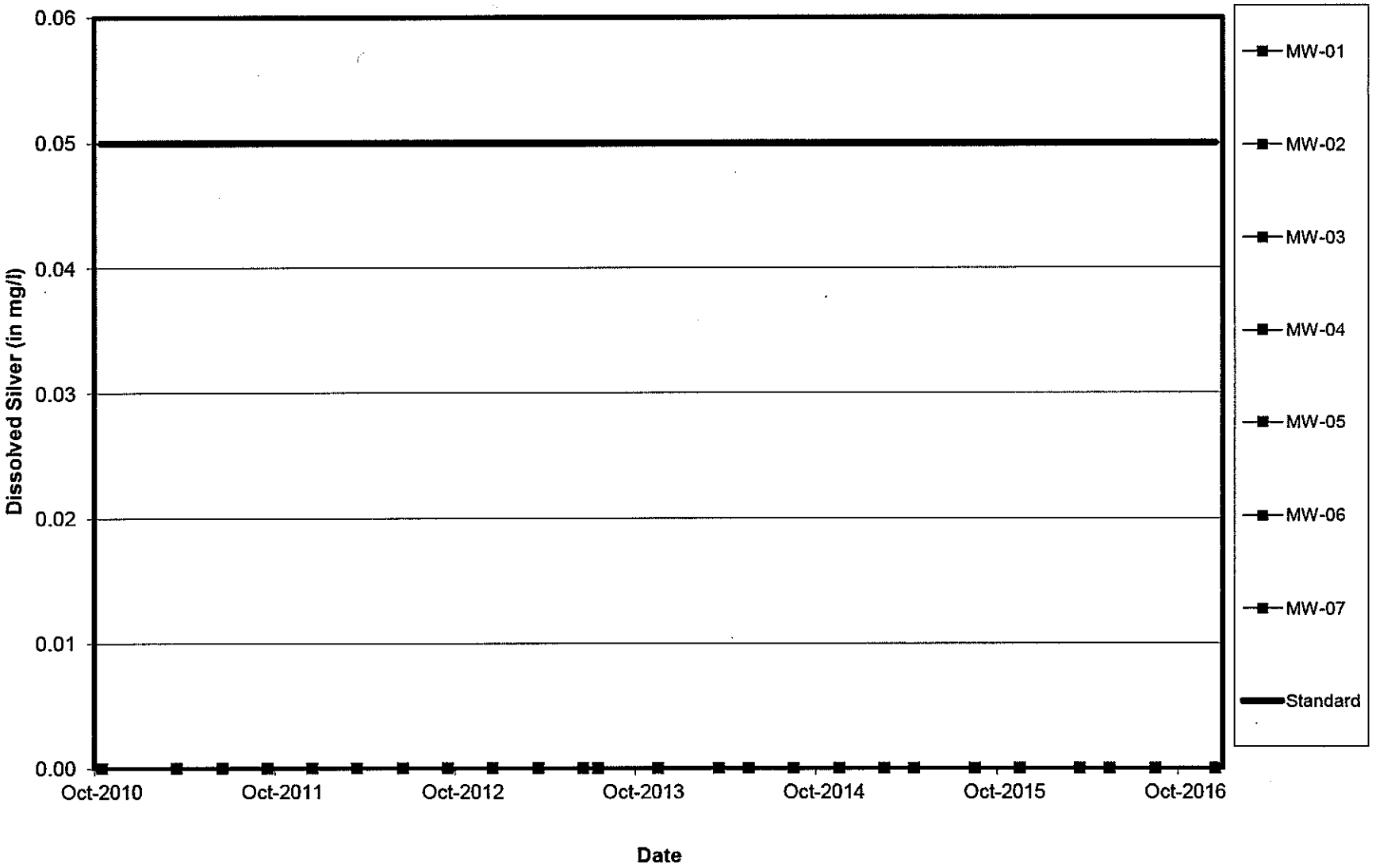
Dissolved Selenium vs. Time



MWG13-15_58575

Midwest Generation Waukegan Station, Waukegan, IL

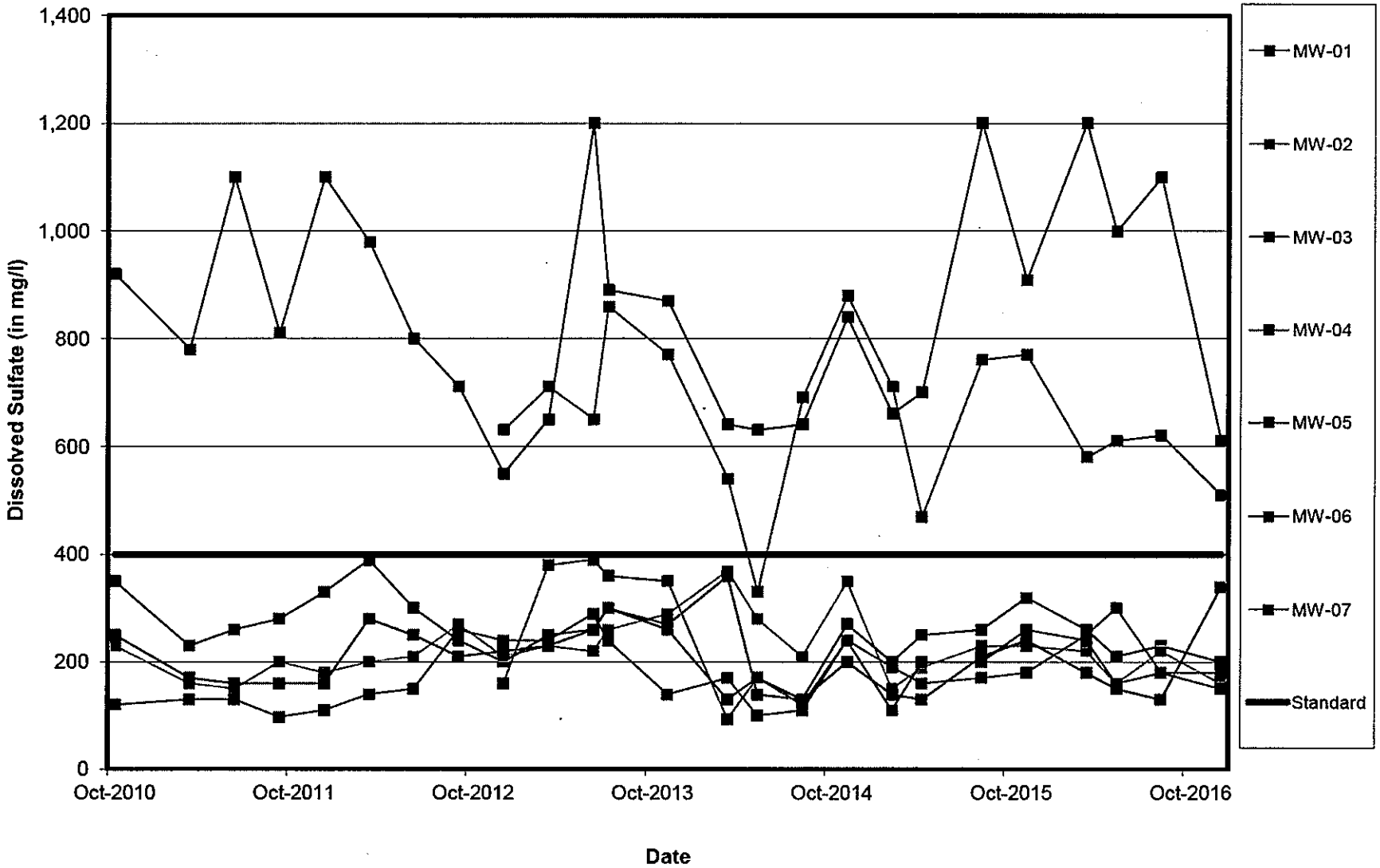
Dissolved Silver vs. Time



MWG13-15_58576

Midwest Generation Waukegan Station, Waukegan, IL

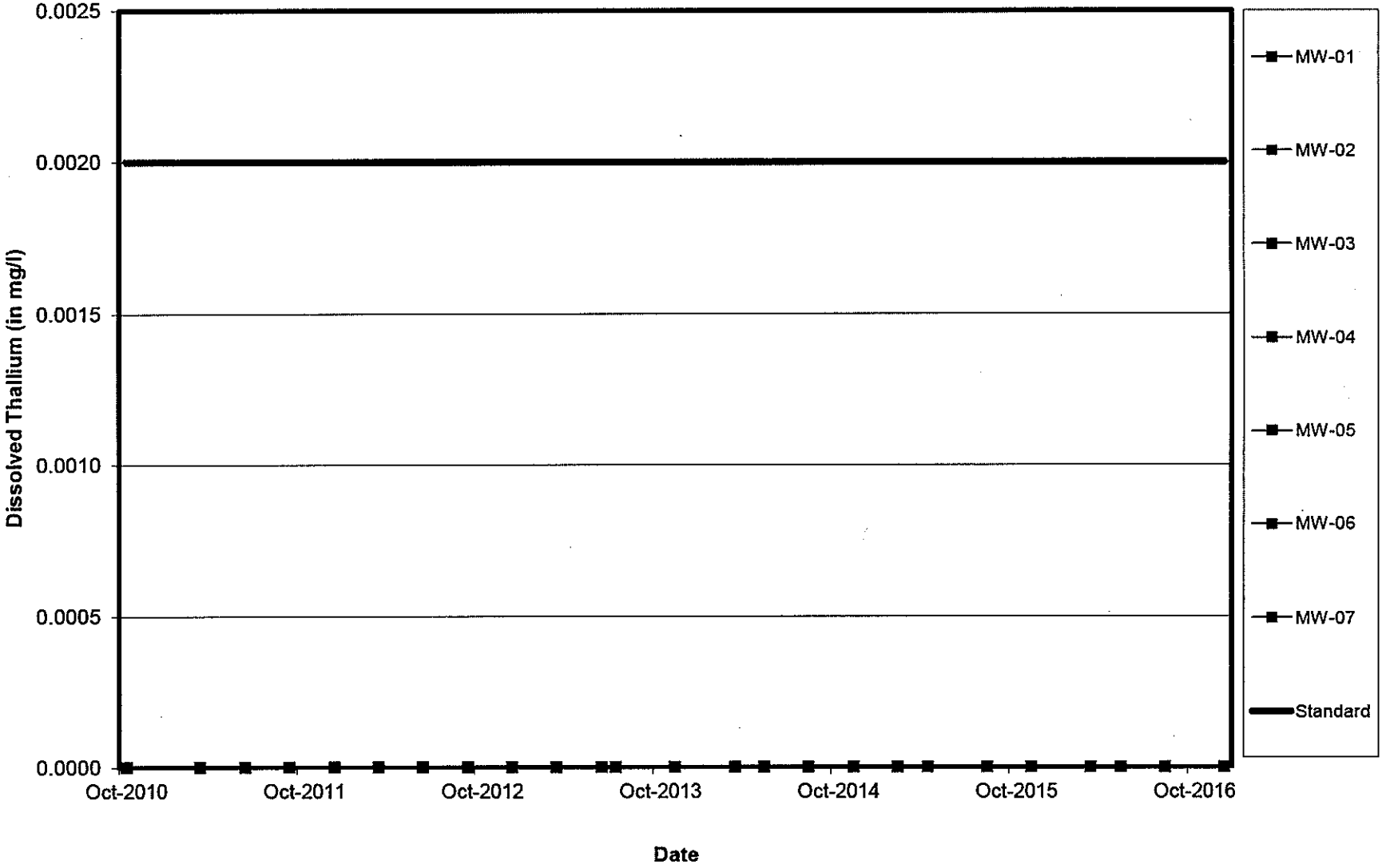
Dissolved Sulfate vs. Time



MWG13-15_58577

Midwest Generation Waukegan Station, Waukegan, IL

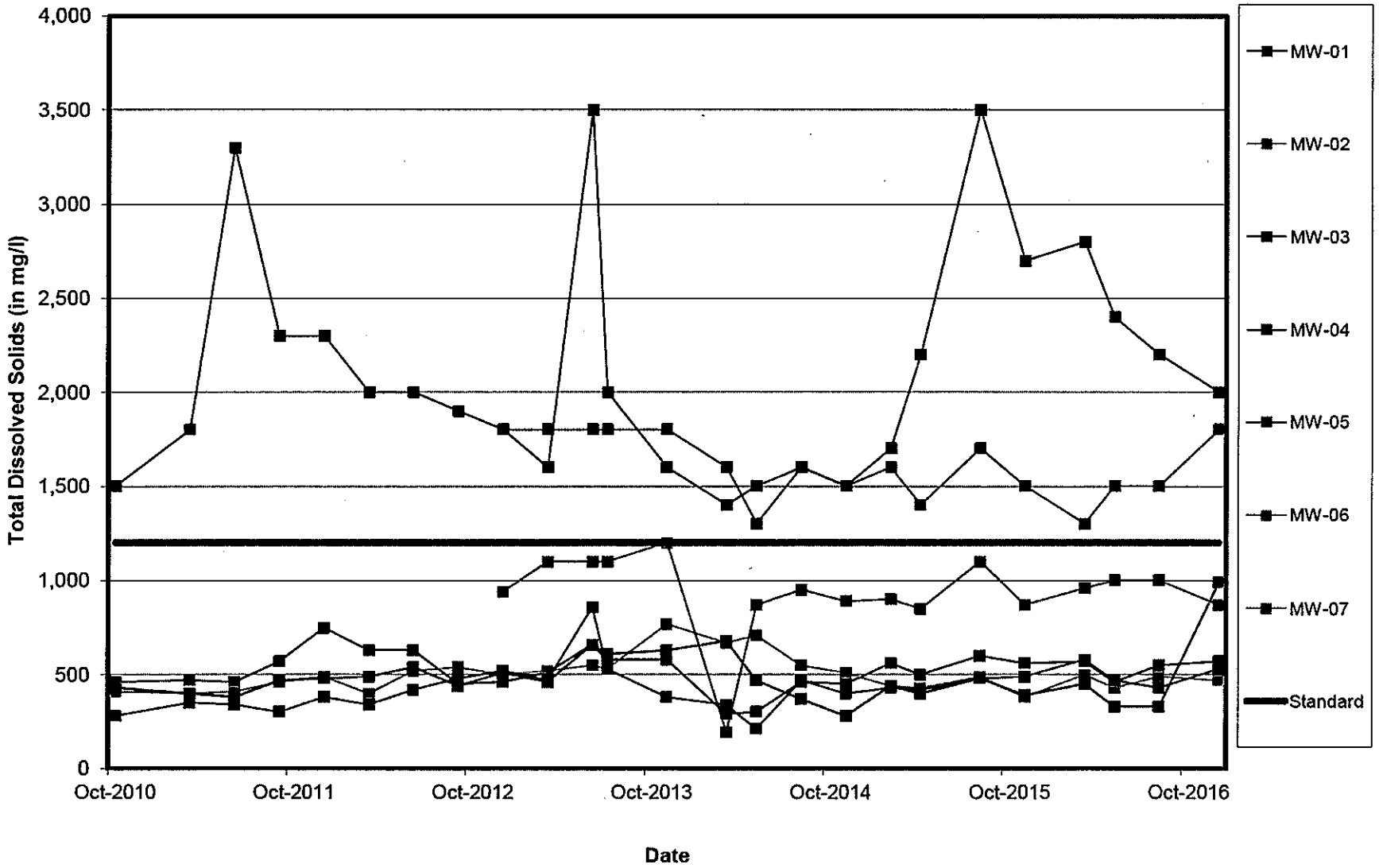
Dissolved Thallium vs. Time



MWG13-15_58578

Midwest Generation Waukegan Station, Waukegan, IL

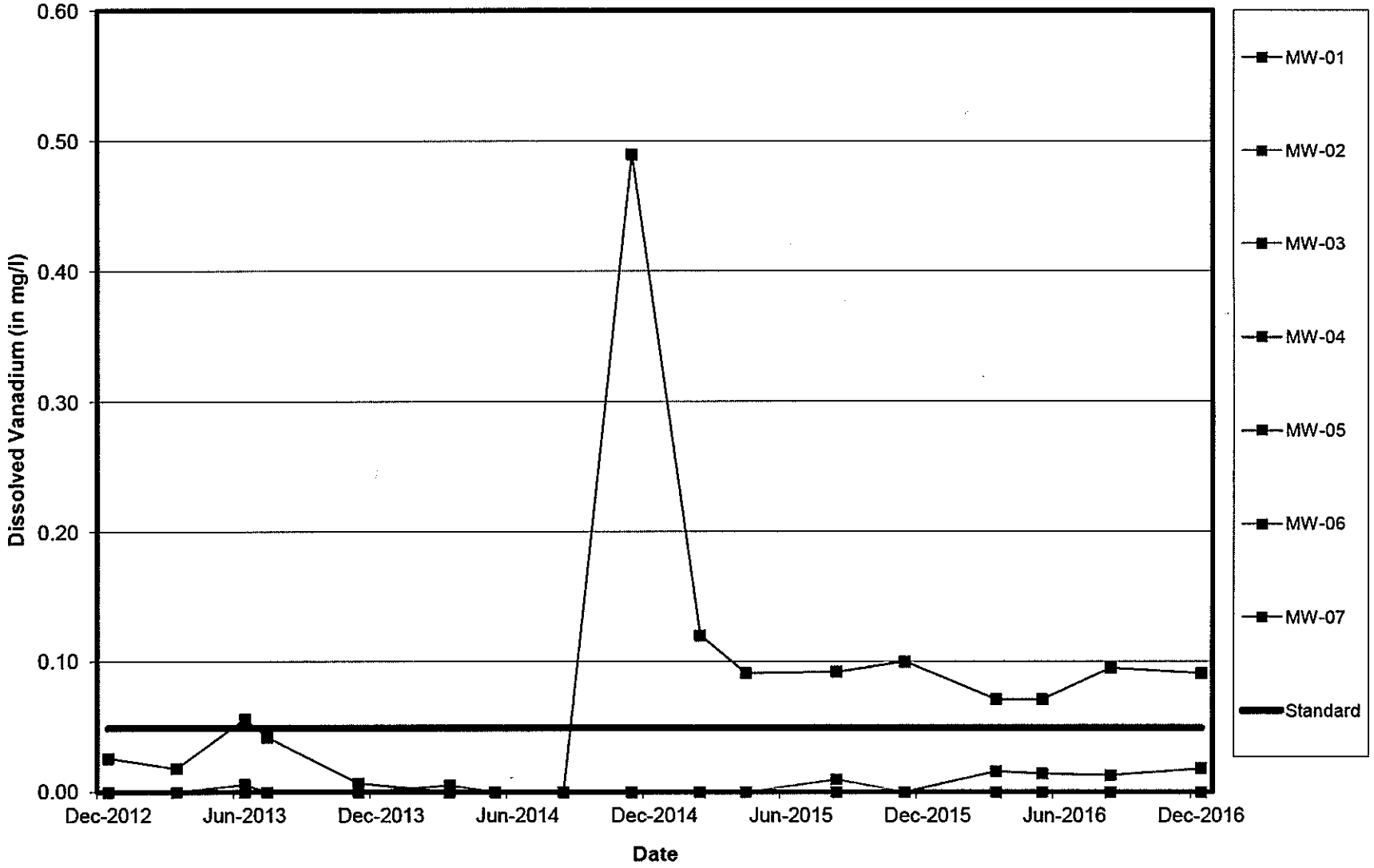
Total Dissolved Solids vs. Time



MWG13-15_58579

Midwest Generation Waukegan Station, Waukegan, IL

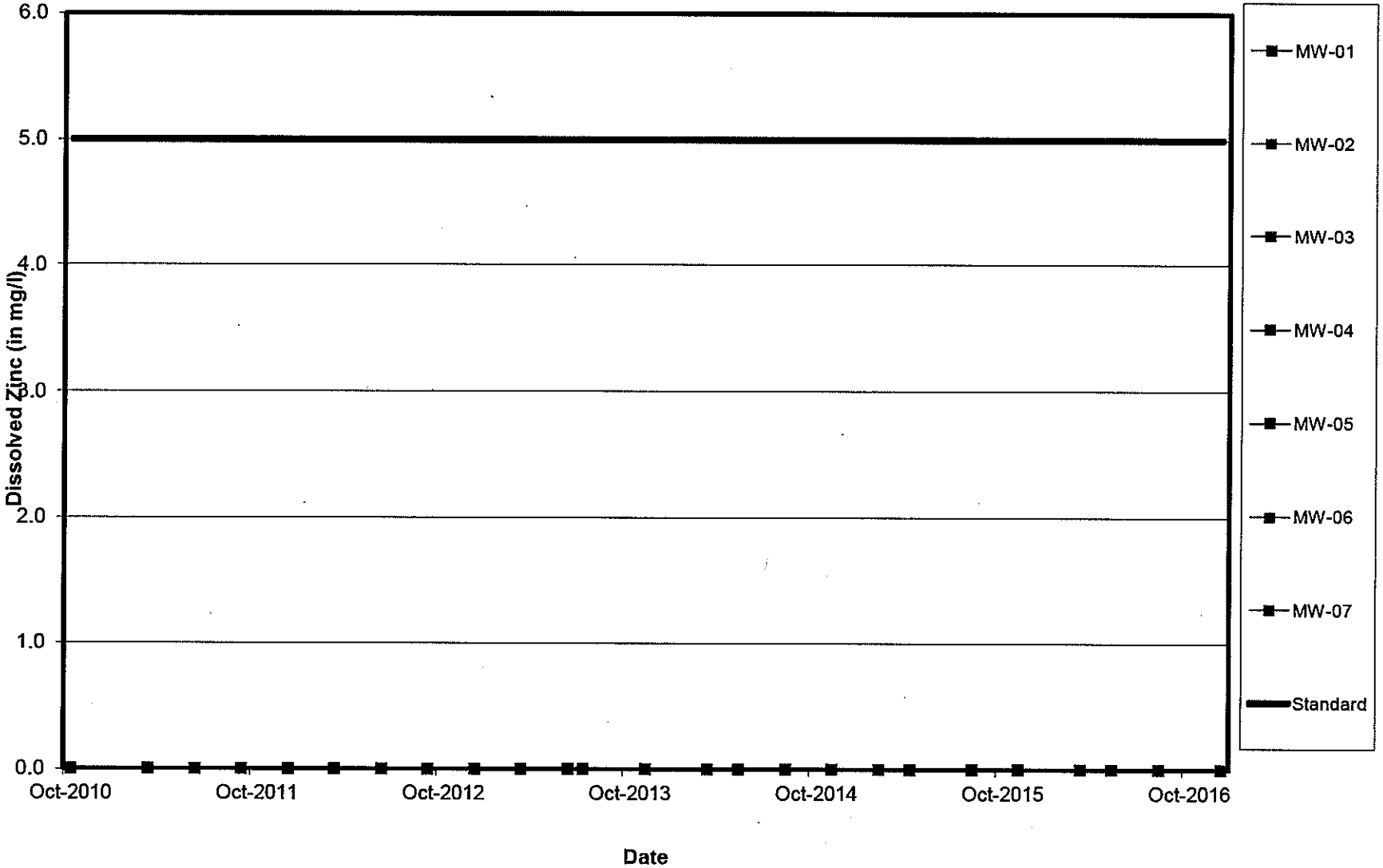
Dissolved Vanadium vs. Time



MWG13-15_58580

Midwest Generation Waukegan Station, Waukegan, IL

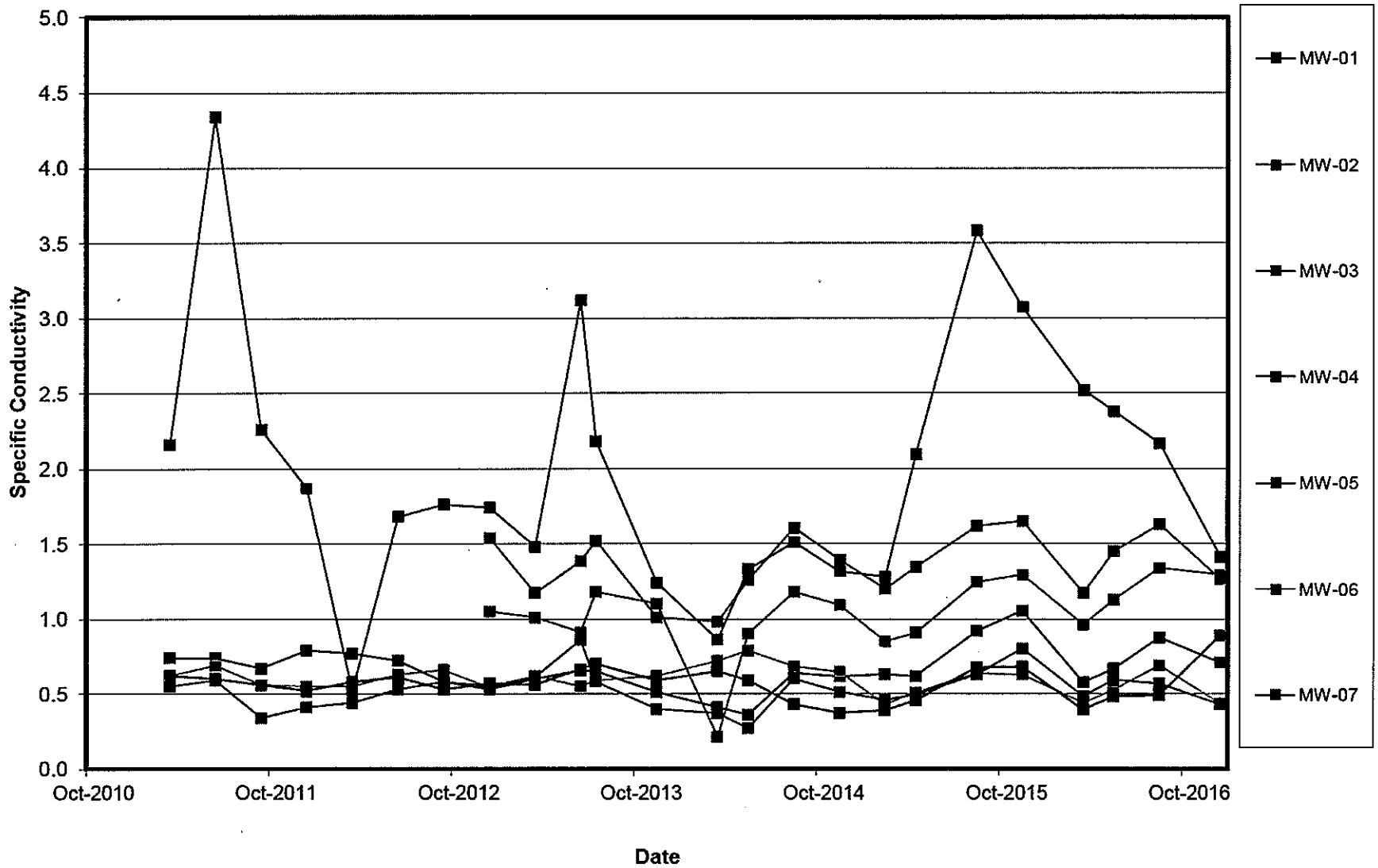
Dissolved Zinc vs. Time



MWG13-15_58581

Midwest Generation Waukegan Station, Waukegan, IL

Specific Conductivity vs. Time



MWG13-15_58582