Electronic Filing: Received, Clerk's Office 1/2/2025 BEFORE THE POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

S AND S INFINITE GROUI	P, INC.,)	
	Petitioner,)	
v.)	PCB 2025-017 (LUST Appeal)
ILLINOIS ENVIRONMENT	`AL	j	
PROTECTION AGENCY,)	
	Respondent.)	

NOTICE

Don Brown, Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph, Suite 11-500 Chicago, IL 60601 don.brown@illinois.gov Carol Webb, Hearing Officer Illinois Pollution Control Board 1021 North Grand Avenue East P.O. Box 19274 Springfield, IL 62794-9274 carol.webb@illinois.gov

Patrick D. Shaw Law Office of Patrick D. Shaw 80 Bellerive Road Springfield, IL 62704 pdshaw1law@gmail.com

PLEASE TAKE NOTICE that I have today filed with the office of the Clerk of the Pollution Control Board the ADMINISTRATIVE RECORD, and a CERTIFICATE OF RECORD ON APPEAL, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,

Respondent

Rich Kim

Assistant Counsel - Division of Legal Counsel

Special Assistant Attorney General

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

866/273-5488 (TDD)

Dated: January 2, 2025

BEFORE THE POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

S AND S INFINITE GROUP, INC.,)
Petitioner,)
v.) PCB 2025-017
ILLINOIS ENVIRONMENTAL) (LUST Appeal)
PROTECTION AGENCY,)
Respondent.	j

CERTIFICATE OF RECORD ON APPEAL

Pursuant to 35 Ill. Adm. Code 105.116(b) and 105.410, the following constitutes an index of documents comprising the record:

PAGES	DOCUMENT(S)	DATE
AR000001-AR000002	IEMA HazMat Report (2014-0963)	August 19, 2014
AR000003	IEPA Notice of Release Letter	August 22, 2014
AR000004-AR000079	CAP/Budget (2014-0963)	July 2, 2015
AR000080-AR000081	IEPA Technical Review Notes	July 15, 2015
AR000082-AR000085	CAP/Budget Response Letter	July 21, 2015
AR000086-AR000087	IEMA HazMat Report (2016-1089)	November 21, 2016
AR000088	IEPA Notice of Release Letter	December 9, 2016
AR000089-AR000199	CAP/Budget (2016-1089)	March 19, 2018
AR000200- AR000205	IEPA Technical Review Notes	June 4, 2018
AR000206-AR000214	CAP/Budget Response Letter	June 20, 2018
AR000215-AR000368	Amended CAP/Budget	November 12, 2018
AR000369- AR000370	IEPA Technical Review Notes	January 31, 2019
AR000371-AR000380	Budget Costs Email	February 7, 2019
AR000381- AR000384	Amended CAP/Budget Response Letter	February 11, 2019
AR000385-AR000390	CAP Budget Amendment	August 13, 2019
AR000391-AR000400	CAP Budget Amendment	September 10, 2019
AR000401- AR000403	CAP Budget Response Letter	October 22, 2019
AR000404-AR000408	CAP Budget Response Letter	October 22, 2019
AR000409-AR000411	Advertisement for Bidding	March 1, 2024
AR000412-AR000429	CAP Budget Amendment	May 23, 2024
AR000430-AR000434	CAP Budget Response Letter	September 13, 2024

I, Stephanie A. Sample, certify on information and belief that the entire record of the Respondent's decision, as defined in 35 Ill. Adm. Code 105.410(b), is hereby enclosed.

Stephanie A. Sample

Leaking Underground Storage Tank Section Illinois Environmental Protection Agency

Date: 1/2/2025

Electronic Filing: Received, Clerk's Office 1/2/2025 CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that on January 2, 2025, I served

 $true\ and\ correct\ copies\ of\ , the\ \textbf{ADMINISTRATIVE}\ \textbf{RECORD}, and\ a\ \textbf{CERTIFICATE}\ \textbf{OF}\ \textbf{RECORD}$

ON APPEAL, via the Board's COOL system and email, upon the following named persons:

Don Brown, Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph, Suite 11-500 Chicago, IL 60601 don.brown@illinois.gov

Patrick D. Shaw Law Office of Patrick D. Shaw 80 Bellerive Road Springfield, IL 62704 pdshaw1law@gmail.com Carol Webb, Hearing Officer Illinois Pollution Control Board 1021 North Grand Avenue East P.O. Box 19274 Springfield, IL 62794-9274 carol.webb@illinois.gov

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent

Rich Kim

Assistant Counsel - Division of Legal Counsel Special Assistant Attorney General 1021 North Grand Avenue, East P.O. Box 19276 Springfield, Illinois 62794-9276 217/782-5544 866/273-5488 (TDD) richard.kim@illinois.gov



Electronic Filing: Received, Clerk's Office 1/2/2025 Hazardous Materials Incident

Hazardous Materials Incident Report

1430650114-

EMAP Accredited

Incident #: H-2014-0963

SIS Infinite Group, Inc

Entered By: Kirgan, Ken (IEMA) on 2014-08-19 11:23:33

Data Input Status: Closed

Leaking Underground Storage Tank (LUST): Yes Leaking USTTech File

Caller:	Jeff Wienhoff		••		
Call Back #:	217/899-5486	1EPA-D	Wision of Records		
Caller Represents:	Marlin Environmental		RELEASABLE		
Hazmat Incident Type:	Leak or spill		SEP 2 2 2014		
	INCIDENT I	LOCATION			
Incident Location:	400 NE Adams St		REVIEWER: JKS		
County:	Peoria 6/603	City:	Peoria		
Primary IEMA Region:	6	Secondary IEMA Region:	Not Applicable		
Full Address:	400 NE Adams St. Peoria, IL				
Latitude:	40.694236	Longitude:	-89.585712		
Milepost:	n/a	Sec:	n/a		
Twp.:	n/a	Range:	n√a		
Area Involved:	Fixed Facility				
Media or medium into which the release occurred:	Ground				

	WEATHER IN	FORMATION
Temp (deg F):	11/8	Wind Dir/Speed m.p.h: n/a

MATERIALS INVOLVED							
Material Name:	unleaded gasoline and diesel fuel	Material Type:	Liquid				
CHRIS Code:	unknown	unknown					
UN/NA #:	unknown						
ls this a 302(a) Extremely Hazardous Substance?	No						
Is this a RCRA Hazardous Waste?	No						
Is this a RCRA regulated facility?	No						
Container Type:	Under ground storage tank	Container Size:	1-10.000 gallons (gasoline). 1 6,000 gallons (diesel)				
Amount Released:	unknown	Rate of Release/min:	unknown				
Duration of Release:	unknown						
Cause of Release:	unknown						
Estimated Spill Extent:	unknown	Spill Extent Units:					

Date/Time Occured:	(Date/Time Unknown)						
Date/Time Discovered:	2014-08-19 10:00						
Number Injured:	0 Where Taken: none						
Number Killed:	0			# Evacuated:			
On Scene Contact:	Jeff Wicnhoff			On Scene Phone #:			
Proper safety precautions to take none			cluding evac		2171079-5400		
Assistance needed from State Agnone	eneies:		·				
Containment/Cleanup actions and caller is with the hired contractor	plans:						
Responsible Party:	S&S Infinite	Group, Incor	norated				
Contact Person:	Sved Muneel				· · · · · · · · · · · · · · · · · · ·		
Callback Phone Number:	309/673-1060	 5		<u> </u>	-		
Facility Manager:	Sved Muncel	b					
Facility Manager Phone #:	309/673-1060						
Street Address:	400 NE Adar	ns Si		<u> </u>			
City:	Peoria Sta	ite: IL Ziq	Code: 616)3			
Emergency Units Contacted	Contacted	On Scene		Agencies Cor	ntacted		
ESDA			none		•		
Fire			none				
Police			none				
Sheriff			none				
Other			none				
	A	GENCIES	OR PERSO	NS NOTIFIED			
Agency	· · · · · · · · · · · · · · · · · · ·	ite/Time		Name of Person	Notification Action		
IEPA, NRTP, OSFM	2014-	08-19 11:25		cmailed	Report Sent		
IEMA Region 6	2014-	08-19 11:25		emailed	Report Sent		
Narrative:							
хананус.							
	_						
	-						



EIGEIPRIOFSI EN PROMENTAL PIROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

PAT QUINN, GOVERNOR

LISA BONNETT, DIRECTOR

217/524-3300

August 22, 2014

S&S Infinite Group, Inc. Attn: Syed Muneeb 400 NE Adams Street Peoria, IL 61603 MEPA - DINISION OF PEOC 104 MAIN/GENIEW RELITED BLE

SEP 2 2 2014

REVIEWER RDH

Re:

LPC #1430650114 -- Peoria County

Peoria/S&S Infinite Group, Inc.

400 NE Adams Street

Leaking UST Incident No. 20140963

Leaking UST Technical File

Dear Owner/Operator:

The Illinois Environmental Protection Agency (Illinois EPA) received notification from the Illinois Emergency Management Agency that a release from an underground storage tank system(s) has occurred at the above-referenced site. As a result of this release, the owner or operator of the underground storage tank(s) is required to comply with the Leaking Underground Storage Tank (Leaking UST) Program requirements, including the submittal of applicable documentation on forms prescribed and provided by the Illinois EPA.

To obtain copies of the forms, as well as additional information regarding the Illinois EPA's Leaking UST Program, please visit our Web page at http://www.epa.state.il.us/land/lust/index.html.

- 1. The direct link to the technical forms page is http://www.epa.state.il.us/land/lust/forms/technical-forms/index.html.
- 2. If you intend to seek reimbursement from the Illinois Underground Storage Tank Fund for costs incurred, the direct link to the budget and reimbursement forms page is: http://www.epa.state.il.us/land/lust/forms/budget-forms/index.html.

If you do not have access to the Internet and/or have questions about the Leaking UST Program requirements, please contact the Leaking UST Program project manager on call at 217/524-3300.

Sincerely,

Herrando A Albamacia Managar

Hernando A. Albarracin, Manager Leaking Underground Storage Tank Section Division of Remediation Management Bureau of Land

HAA: jw\

CC:

BOL File



1430650114 – Peoria County S & S Infinite Group, Inc. Incident # 20140963 Leaking UST Technical File

CORRECTIVE ACTION PLAN TACO CLOSURE

DOWNTOWN 66 - PEORIA 400 NE ADAMS STREET PEORIA, PEORIA COUNTY ILLINOIS 61603 LUST INCIDENT # 20140963 LPC# 1430650114

Prepared for:

S & S INFINITE GROUP, INC. 400 NE ADAMS STREET PEORIA, Illinois 61603 IEPA - DIVISION OF RECORDS HAVAGEMENT Releasable

JUL 3 0 2015

REVIEWER JRM

Prepared by:

MARLIN ENVIRONMENTAL, INC.RECEIVED

3900 Wood Duck Drive, Suite F Springfield, Illinois 62711

JUL 0 2 2015

IEPA/BOL

July 2, 2015

Jeff R. Wienhoff, P.E.

Senior Professional Engineer

Joe Buhlig

Project Manager

TABLE OF CONTENTS

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A. Site Identification ... Site Information. Proposed Methods of Remediation Soil and Groundwater Investigation Results Description of investigation activities _______2 Analytical results, chain-of-custody forms, and laboratory certifications2 3. Technical Information - Corrective Action Plan c. A schedule of when the technologies are expected to achieve the applicable ROs.......4 A confirmation sampling plan4 A description of the current and projected future uses of the site4 The water supply well survey ______4 10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc. ______5 12. Cost comparison ______5 b. A discussion of how input variables were determined _______6 d. Calculations 6 F. Exposure Pathway Exclusion A discussion of how any exposure pathways are to be excluded. RECEIVED G. Signatures **FIGURES** JUL 0 2 2015 Site Area Features Map (R-26 Modeled Extents) Site Area Features Map (IDOT HAA) IEPA/BOL

TABLES

Soil Analytical – Comparison to Applicable Tier 2 Objectives

ATTACHMENTS

- **TACO Tier 2 Calculations**
- 2. CAP Budget Forms and OSFM Eligibility Letter

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Patient to disclose this information may reach in a civil penalty of not to exceed \$30,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a fide material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Ruma Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program Corrective Action Plan

A.	Si	ite Identification	
	Œ	MA Incident # (6- or 8-digit): <u>20140963</u> IEPA LPC # (10-digit):_	1430650114
	Sit	e Name: S &S Infinite Group, Inc. (Downtown 66)	
	Sit	te Address (Not a P.O. Box): 400 NE Adams St.	
	Cit	ty: <u>Peoria</u> County: <u>Peoria</u> ZIP Cod	e: <u>61603</u>
	Le	aking UST Technical File	
B.	Sid	te Information	
	1.	Will the owner or operator seek reimbursement from the Underground Storage Tank Fund?	Yes ⊠ No 🗌
	2.	If yes, is the budget attached?	Yes ⊠ No 🗌
•	3.	Is this an amended plan?	Yes 🗌 No 🔯
	4.	Identify the material(s) released: <u>Unleaded Gasoline</u> , <u>Diesel Fuel</u>	
	5.	This Corrective Action Plan is being submitted pursuant to:	RECEIVED
		a. 35 Ill. Adm. Code Section 731.166:	JUL (2 2015
		The material released was: - petroleum - hazardous substance (see Environmental	IEPA/BOL
		Protection Act Section 3.215)	
		b. 35 Ill. Adm. Code Section 732.404	
		c. 35 Ill. Adm. Code Section 734.335 (Pursuant to PA 96-0908)	
C.	Pr	roposed Methods of Remediation	

1. Soil The soil contamination that exists at the site will be addressed institutionally. The required

institutional controls to address the soil contamination that exists are the usage of Tier 2 objectives, an on-site potable well restriction, an Industrial/Commercial Land Use Restriction, an ELUC and an IDOT Highway Authority Agreement for Spalding Ave.

2. Groundwater

Site investigation activities have determined that groundwater was not encountered on this property. The remaining soil contaminants that Equation S28 demonstrates as posing a potential future leaching threat were modeled for potential future groundwater extent using the IEPA sanctioned Risk Based Corrective Action (RBCA) Equation R26. An on-site groundwater use restriction, an Industrial/Commercial Land Use Restriction, an ELUC and an IDOT HAA will be relied upon to mitigate any potential threats.

D. Soil and Groundwater Investigation Results (for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

1. Description of investigation activities performed to define the extent of soil and/or groundwater contamination;

Please refer to the Site Investigation Completion Report (SICR) approved on April 7, 2015, which details the soil and groundwater investigation activities performed to define the extent of contamination at the subject LUST site. The pertinent site area features are illustrated in Figure 1.

Soil Gas Indoor Inhalation Exposure Pathway

Tier 1 Residential and Industrial/Commercial Indoor Inhalation Exposure Routes: Utilizing the IEPA Petroleum Vapor Intrusion (PVI) flowchart, Marlin Environmental, Inc. completed a preliminary evaluation to assess the need for PVI investigation. Free product has not been encountered at this site and no exceedances of the IEPA TACO Tier 1 Soil Saturation Limits exist from LUST Incident No. 20140963. In addition, there have been no reports of petroleum vapors present within buildings at the site or adjacent properties. Furthermore, there is no groundwater contamination associated with LUST Incident No. 20140963. Given the above, Marlin Environmental, Inc. requests that the IEPA conduct their site-specific Tier 3 PVI evaluation to conclusively exclude the Indoor Inhalation exposure route from further consideration for LUST Incident No. 20140963.

2. Analytical results, chain-of-custody forms, and laboratory certifications;

Please refer to the 45-Day Report and the SICR.

3. Tables comparing analytical results to applicable remediation objectives;

Please refer to the 45-Day Report and the SICR.

4. Boring logs;

Please refer to the SICR.

5. Monitoring well logs; and

Please refer to the SICR.

- 6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations; Please refer to Figure 1.
 - b. Monitoring well locations; Please refer to Figure 1.
 - c. The plume of soil contamination based on analytical results; Please refer to Figure 1.

E. Technical Information - Corrective Action Plan

Provide the following:

- 1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and

Soil contamination above TACO Tier 1 Objectives exists at the Downtown 66 Property. The calculation of Tier 2 Objectives along with the reliance upon an on-site potable well restriction and an IDOT Highway Authority Agreement will be used to addresses the soil contamination that exists at the site. Soil sample SB-4 (2'-4'), SB-5 (2'-4'), SB-8 (2'-4'), SB-8 (6'-8'), SB-9 (2'-4') and SB-14 (2'-4') returned a concentration of benzo(a)pyrene and or Dibenzo(a,h)anthracene above the IEPA TACO Tier 1 SRO for the Residential Soil Ingestion Exposure Route. Pursuant to 35 IAC 742.415(b)(2), for those PNA compounds whose background concentrations (for populated areas within any county in a Metropolitan Statistical Area) exceed the most stringent IEPA TACO Tier 1 SROs, the background concentration shall be used as the Tier 1 SRO as promulgated in 35 IAC 742 Appendix A. Table H. The City of Peoria, located in Peoria County, had a population of more than 50,000 people as of the 2010 Census. Therefore, the subject site is located in a populated area, as defined by 35 IAC 742.200, within a county in a Metropolitan Statistical Area. The reported concentrations of benzo(a)pyrene and Dibenzo(a,h)anthracene are below the PNA background concentration for populated areas within Metropolitan Statistical Areas. Table 1 compares the results above Tier 1 Objectives to appropriate Tier 2 Objectives to demonstrate compliance with TACO. Figure 2 demonstrates the area to be addressed by the Highway Authority Agreement.

Groundwater modeling was performed on each of the affected elevated soil samples to determine the potential long-term impaction of the contaminants that currently exist at the site. Due to the fact that groundwater was not encountered during site investigation, groundwater flow direction could not be established. However, because of the visible topography of the site and the location of the river in relation to the site, it is apparent groundwater flows to the south towards the river. The modeled distances for soil exceedances of the groundwater objective are demonstrated in this Corrective Action Plan and the calculations are included in Attachment 1. A map showing the horizontal extents the modeled contamination is included in Figure 1. The HAA will address the potential migration of soils into the groundwater in the Right-of-way.

Following the approval of this Corrective Action Plan; a highway authority agreement will be sought from IDOT. A Corrective Action Completion Report will be submitted to the Illinois EPA requesting issuance of a No Further Remediation letter for the incident. Upon issuance of the NFR designation from the Agency, Marlin Environmental, Inc. shall record the NFR document to the title of the site with the County Recorder of Peoria County. The

groundwater monitoring wells shall be properly abandoned, in accordance with 77 IAC 920.120, following the receipt of the NFR designation from the Agency.

The budget for the work associated with this CAP proposal is included as Attachment 2.

c. A schedule for implementation and completion of the plan;

The Corrective Action Completion Report will be prepared and submitted following the approval of the Highway Authority Agreement for Spalding Ave. Following issuance of the No Further Remediation letter, the monitoring wells at the site will be abandoned and proper notifications required through the use an on-site potable well restriction.

2. Identification of the remediation objectives proposed for this site;

The indicator contaminants for the unleaded gasoline and diesel fuel associated with this facility are BTEX/MTBE and PNA constituents. Soil cleanup objectives have been based upon the calculated Tier 2 SROs on-site and the Tier 1 SROs off-site. Groundwater remediation objectives are based upon the IEPA TACO Tier 1 GROs for Class I Groundwater

3. A description of the remedial technologies selected:

- a. The feasibility of implementing the remedial technologies;
- b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
- c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;

Not applicable for this CAP.

4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;

Not applicable for this CAP.

5. A description of the current and projected future uses of the site;

The remediation site is currently a convenience store. The planned post remediation usage of the site is expected to remain the same, at least as of the time of this report.

- 6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives;
 - a. An assessment of their long-term reliability;
 - b. Operating and maintenance plans; and
 - c. Maps showing area covered by barriers and institutional controls;

The institutional controls that will be required following implementation of the plan are an onsite groundwater use restriction and an IDOT HAA for Spalding Ave. The area over which the Highway Authority Agreement is required is demonstrated in Figure 2.

7. The water supply well survey:

- a. Map(s) showing the locations of community water supply wells and other potable wells and the setback zone for each well;
- b. Map(s) showing regulated recharge areas and wellhead protection areas;
- c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
- d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
- e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
- f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any other field observations associated with any wells identified; and
- g. A certification from a licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

Please refer to the SICR for the results of the water supply well survey conducted for the site.

8. Appendices;

a. References and data sources report that are organized; and

Not applicable for this CAP.

b. Field logs, well logs, and reports of laboratory analyses;

Please refer to the IEPA approved SICR.

9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;

Please refer to Figure 1 and Figure 2.

10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;

Not applicable for this CAP.

11. A description of bench/pilot studies;

Not applicable for this LUST facility.

12. Cost comparison between proposed method of remediation and other methods of remediation;

Not applicable for this LUST facility.

13. For the proposed Tier 2 or 3 remediation objectives, provide the following:

- a. The equations used;
- b. A discussion of how input variables were determined;
- c. Map(s) depicting distances used in equations; and
- d. Calculations;

The site-specific data collected during the Site Investigation activities was utilized to determine Tier 2 SROs for the Soil Component of the Groundwater Ingestion Exposure Pathway (using Equations S18 and S28) and Soil Inhalation Exposure Pathway for Residential properties (using Equations S4, S6 and S26 as appropriate) and Construction Worker populations (using Equations S5 and S26/S27 as appropriate). The data calculations sheet along with SSL IEPA forms are included in Attachment 1.

14. Provide documentation to demonstrate the following for alternative technologies:

- a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
- b. The proposed alternative technology will not adversely affect human health and safety or the environment;
- c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of alternative technology;
- d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
- e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
- f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

Not applicable for this LUST facility.

15. Property Owner Summary Form

This will be provided within the Corrective Action Completion Report (CACR) for this facility.

F. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:

- a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
- b. Soil saturation limit will not be exceeded for any of the organic contaminants;
- c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
- d. Contaminated soils do not exhibit a pH <2.0 or >12.5; and
- e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.

Not applicable for this LUST facility.

2. A discussion of how any exposure pathways are to be excluded.

Not applicable for this LUST facility.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name: S&S Infinite Group, Inc. Contact: Syed Muneeb Address: 400 NE Adams Street City: Peoria State: Illinois ZIP Code: 61603 Phone: (309) 673-1066 Signature: Date: 1309/673-1066

Consultant

Company:	Marlin Environmental, Inc.
Contact:	Joe Buhlig
Address:	3900 Wood Duck Dr., Suite F
City:	Springfield
State:	Illinois
ZIP Code:	62711
Phone:	217-726-7569 Ext. 300
Signature:	Soc Buhlie
Date:	76/5

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732, or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer

 Name:
 Jeff Wienhoff

 Company:
 Marlin Environmental, Inc.

 Address:
 3900 Wood Duck Drive, Suite F

 City:
 Springfield

 State:
 Illinois

 ZIP Code:
 62711

 Phone:
 (217) 726-7569 Ext. 250

 Ill. Registration No.:
 062-058441

 License Expiration Date:
 11-30-2015

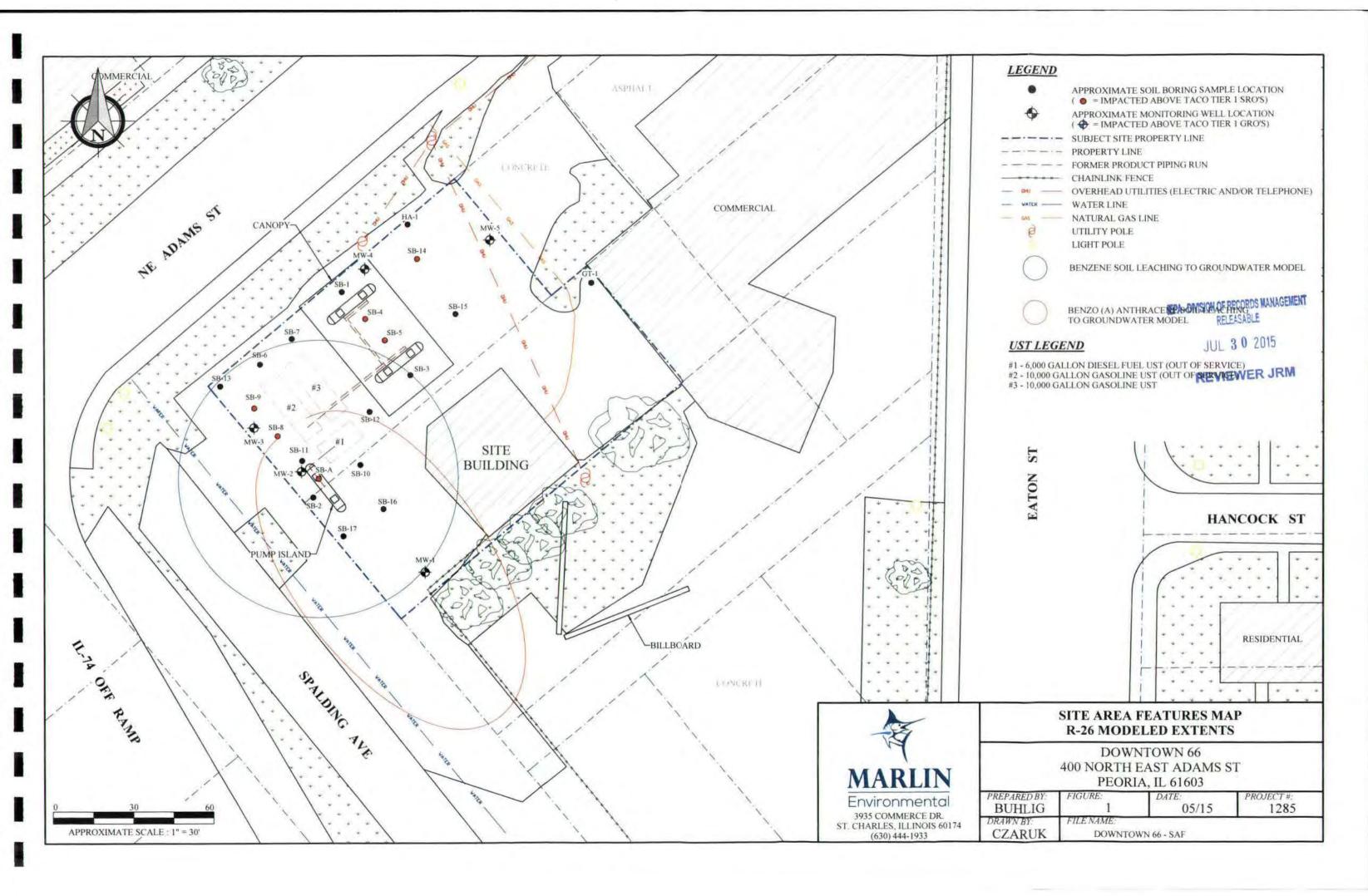
 Signature:
 7/2/15

L.P.E. Seal RECEIVED

JUL 0 2 2015

IEPA/BOL





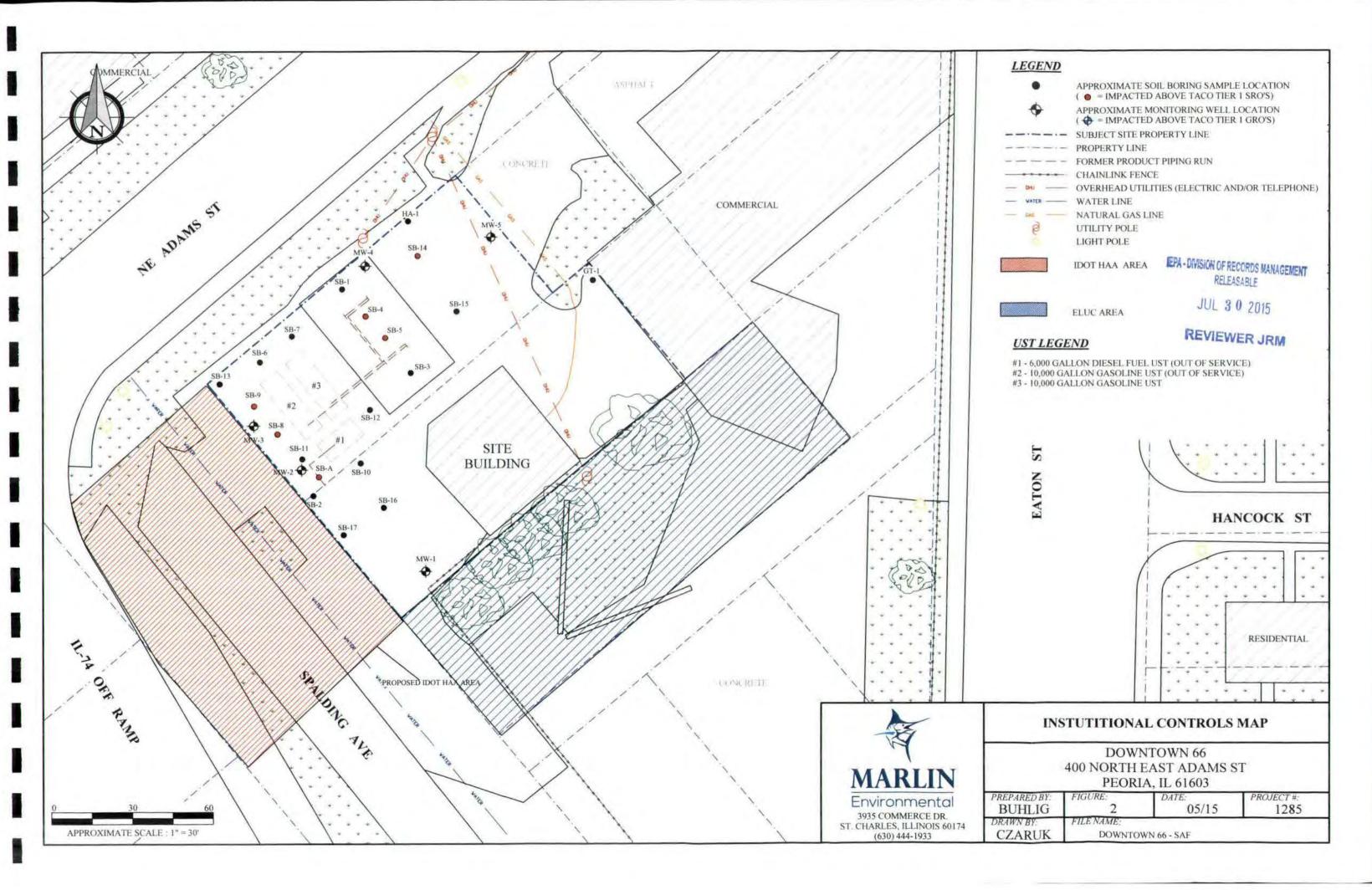


TABLE I

Comparison of Tier 1 SRO Exceedences On-Site to Applicable Tier 2 SROs

Sample ID	Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Benzo (a) anthracen
Component of	Groundw Class I Gro	ater Ingestion	140	27,500	19,200	275,000	2,000
	ACO Fier : ad Inbalatio	1000	3/100	NE	N/E	607,000	N/E
	ACO Tier :	7,000,000	N/E	N/E	N/E	N/E	900
	TACO Tier 2 Commercial Ingestion SROs		N/E	N/E	N/E	N/E	800
-	TACO Tier 2 Industrial / Commercial Inhalation SROs		N/E	N/E	N/E	607,000	N/E
TACO Tier Inl	2 Construct halation SR		N/E	580,000	N/E	554,000	N/E
	ACO Tier 2 Saturation L	The second secon	N/E	N/E	N/E	607,000	N/E
SB-A SB-8	2'-4'	08/12/2014 09/25/2014	1,460	104,000	51,300	450,000	197,000 5,300

Notes

Only samples above Tier 1 objectives collected on-site listed in the table.

Analytical testing results for BTEX and PNAs are expressed in parts-per-billion (ppb) concentrations.

Key:

Bold Indicates Exceeds TACO Tier 2 Soil Comp. of Groundwater Ingestion SRO for Class I GW.

Red Indicates Exceeds TACO Tier 2 Residential Soil Inhalation SRO.

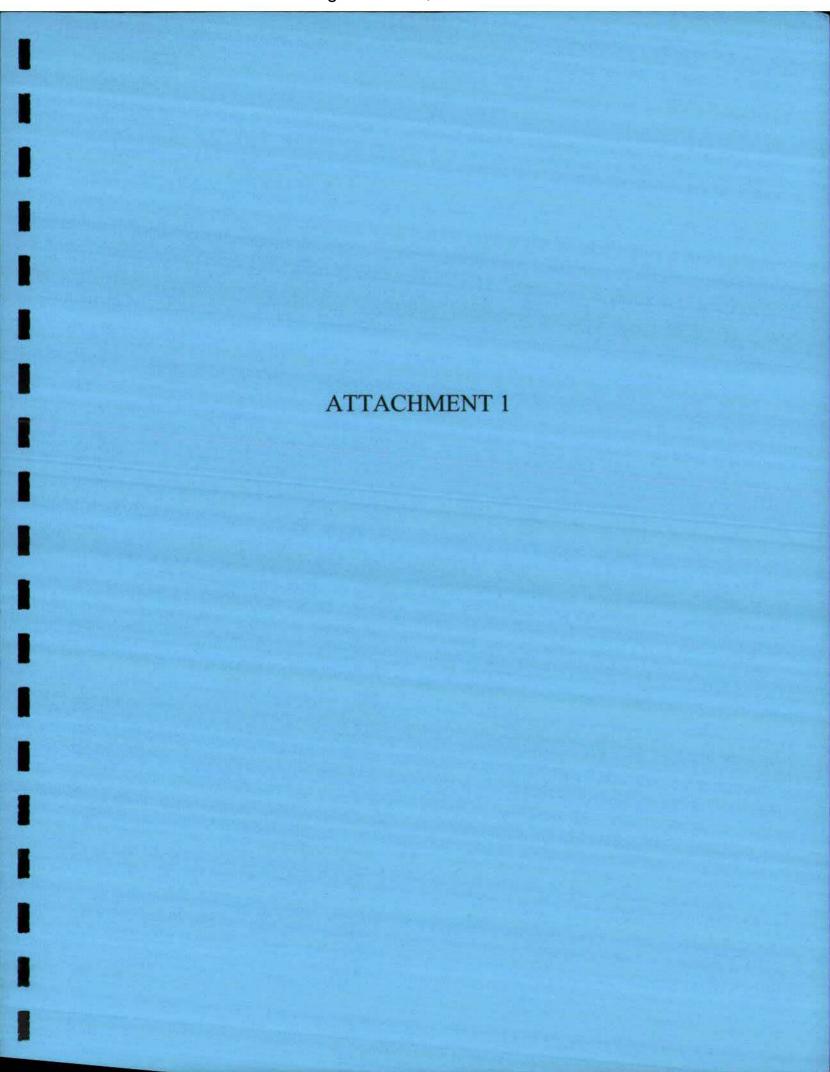
Underlined Indicates Exceeds TACO Tier 2 Industrial / Commercial Soil Inhalation SRO.

Shaded Indicates Exceeds TACO Tier 2 Construction Worker Soil Inhalation SRO.

Sample below Tier 1 SROs for specified contaminant

Calculated Tier 2 Objective was more restrictive than Tier 1, therefore Tier 1 objective was utilized
 # Calculated Tier 2 Objective exceeded soil saturation limit (SSL), therefore appropriate SSL was utilized

N/E Specified Exposure Route SRO not exceeded at Tier 1 for on-site samples.



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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

IEMA Incident #	(6- or 8-digit):	2014	0963	EPA LPC # (10-dig	git): 14306501
Site Name: S &	S Infinite Group	p, Inc.			
Site Address (no	t a P.O. Box):	400 NE Adam	s Street		
City: P	Peoria	County: _	Peoria	Zip Code.	61603
Leaking UST Tech	hnical File				
Tier 2 Calculati	on Informati	on			
					roject Manager
Marlin Environme				ar	Sand
Land Use:	Not Appl	icable	7569 x30 Soil Type	DE	Sand
Land Use: Groundwater: Mass Limit:	Not Appl ☐ Class I Yes ☑ No I	icable Class II f Yes, then Sp	Soil Type	0:	□ 5 □ 10
Land Use: Groundwater: Mass Limit:	Not Appl Class I Yes No I S28 used in R2	icable Class II f Yes, then Sp	Soil Type ecify Acreage: No Specify	□ 0.5 □ 1 □ 2 C _{source} from S18/S2	┌5 ┌10 J
Land Use: Groundwater: Mass Limit: Result from S18/S - Mass Limit Acre	Not Appl Class I Yes X No II S28 used in R2 eage other tha	Class II f Yes, then Sp 6? T Yes an defaults m arameters wh	Soil Type ecify Acreage: No Specify ust always be re	□ 0.5 □ 1 □ 2 C _{source} from S18/S2	5

Symbol			Unit	Symbol		Unit
ATc	=	70	yr	d	=	cm
AT_{n}	=		yr	Dair	=	cm²/s
BW	=	70	kg	Dwater	2	cm²/s
C_{source}	9	see page 3	mg/L	D _s eff)=/	cm²/s
C _(x)	=		mg/L	ED	= /	yr
C _(x) /C _{source}	=		unitless	EF	=	d/yr

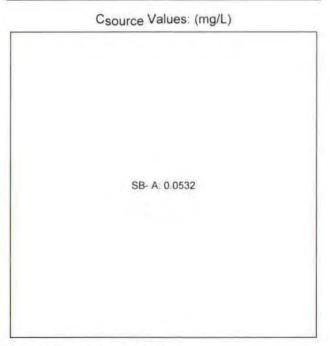
- Inputs must be submitted in the designated unit.

IL 532-2861 LPC 646 8/07 RBCA Input Parameters 1 of 3

Symbol			Unit	Symbol			Unit
Symbol			Onic	Symbol			Onit
erf	=		unitless	RAF _d (PNAs)	=	0.05	unitless
foc	Ŧ		g/g	RAF _d (inorganics)	=	0	unitless
GW _{comp}	=		mg/L	RAF ₀	=	1.0	unitless
GW _{source}	=		mg/L	RBSL _{air} (carcinogenic)	=1		µg/m³
H'	=		cm ³ waler/cm ³ air	RBSL _{air} (noncarcinogenic)	=.		μg/m³
i	=	0.02	cm/cm	RfD _i	=		mg/kg-d
Ú	=	30	cm/yr	RfD _o	=		mg/kg-d
IR _{air}		20	m³/d	SA	=	3,160	cm²/d
IR _{soil}	=		mg/d	S _d	=	200	cm
IR_w	=		L/d	S _w	=	3,444.24	cm
К	=	8.64	cm/d for R15, R19, R26; cm/yr for R24	SF,	0		(mg/kg-d) ⁻¹
K _{oc}	=		cm ³ /g or L/kg	SF _o	=		(mg/kg-d) ⁻¹
k _s (non-ionizing organics)			cm ³ _{water} /g _{soil}	THQ	=	1	unitless
k _s (ionizing organics)			cm ³ _{water} /g _{soil}	TR	=		unitless
k _s (inorganics)	=		cm ³ _{water} /g _{soil}	U	=		cm/d
Ls	×	100	cm	U _{air}	=	225	cm/s
LF _{sw}	=		(mg/L _{water}) /(mg/kg _{soil})	U _{gw}	=		cm/yr
М	=	0.5	mg/cm ²	VFp	H.		kg/m³
Pe	=	6.9 •10-14	g/cm ² -s	VF _{samb}	=		(mg/m³ _{air})/mg/kg _{soil} or kg/m³
RAF _d	=	0.5	unitless	VF _{ss}	=		kg/m³

Incident #:	2014	0963	Chemical:	Benzene	Lar	nd Use:	Not Applicable
Symbol			Unit	Symbol			Unit
W	=		cm	θ_{as}	=		cm³ _{air} /cm³ _{soil}
w	=		gwater/gsoil	θ_{ws}	Ė		cm ³ _{water} /cm ³ _{soil}
х	=	see below	cm	θτ	=		cm ³ /cm ³ _{soil}
α_{x}	=		cm	λ	=	0.0009	d-1
α_{y}	=		cm	п	=	3.1416	
α_{z}	=		cm	Рь	=		g/cm ³
δ_{air}	=	200	cm	ρw	=	1	g/cm ³
δ_{gw}	=	200	cm	τ	=	9.46 -108	S

Equation	Result	Unit(s)
R1	=	mg/kg
R2	=	mg/kg
R7	=	mg/kg
R8	=	mg/kg
R12	=	mg/kg
R25	=	mg/L



Maximum Predicted Extent of Groundwater Impact (X): (feet from point source)

SB- A: 50°

RBCA Input Parameters 3 of 3

DISSOLVED HYDROCARBON CONCENTRATION ALONG CENTERLINE MAXIMUM PREDICTED EXTENT OF GROUNDWATER IMPACT MODELING RBCA EQUATION R26

	Site Details		Sample Det	
Site Name & Location:	Downtown 66 Peoria, Illinois		Sample Location Sample Depth (feet)	
LUST Incident Number(s):	20140963			
Exposure Pathway:	Soil Component	of Groundwater Ingestion		
Groundwater Classification:	Class I			: Benzene
Concentration at the source (C _{so}	ource)=	0.0532 mg/L		
Distance along centerline of the			·	
plume coming from the source	e(X)=	50.00 ft	= 1,524.00 cm	
First order degradation constant (λ)=		0.0009 /day	if benzene, lambda=0.0009/day	
Aquifer hydraulic conductivity (K)-		1.000E-04 cm/sec =	8.640 cm/day	
Hydraulic gradient (i)=		0.0200 m/m		Porosity Gravel=0.25
Total soil porosity (θ_T) =		0.32 cm ³ /cm ³ toil		Sand=0.32 Silt=0.40
				Clay=0.36
Source width perpendicular to GW flow direction in horizontal plane (S _w)=		113 ft =	3,444.24 cm	Default=0.43
Source width perpendicular to GW flow direction in vertical plane (S _d)=		6.56 ft =	200 cm (assuming comp	plete mixing)
Calculated Parameters		DO NOT ENTER VALUES HI	ERE!	
Longitudinal dispersivity	Ax=	152.4 cm		
Transverse dispersivity	Ay=	50.8 cm		
Vertical dispersivity	Az=	7.62 cm		
Specific discharge	U=	0.54 cm/day		
Sw/(4*SQRT(Ay*X))	B=	3.09463245		
Sd/(2*SQRT(Az*X))	C=	0.927724097	6-2	
Error function Error function	erf(B)= erf(C)=	0.999987929 To determine 0.810479731 see F46 & K-	46 in the linear interpolation section.	
Actual B value=		3.09463245	Actual C value 0.92772409	7
Automatic calculations : Actual erf(B)		0.999987929	Actual erf(C)= 0.81047973	
Solutions				
	C _(x)			
	0.005	mg/l		
	C _{source}			
	0.00	mg/l		
Computation of erf(x)				
Source: Abramowitz, M. and I. A. Stegun	n, 1972, Handbook of M	fathematical Functions, Dover Pub	lications, New York, page 299, formula 7.1.26	
Maximum error in computation = 1.5 x 1				
3.0946324 0= 0.327591				
0.327591 11= 0.25482959				
W.AUTOL7J7	- WIEG-10-1216	-		

-0.284496736

1.421413741

-1.453152027

1.061405429

0.496580041

0.999987929

a3= a4=

erf(x)=

-0.284496736

1.421413741

-1.453152027

1.061405429

0.766921652

0.810479731

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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

	# (6- or 8-digit):	2014	0963	IEPA LPC # (10-	digit): 1430650114
Site Name: S	& S Infinite Grou	ıp, Inc.			
Site Address	(not a P.O. Box):	400 NE Adam	s Street		
City:	Peoria	County:	Peoria	Zip Code:	61603
Leaking UST 1	Technical File				
Tier 2 Calcul	lation Informat	ion			
F (5 -/->)	D40 D4	A DOCK DOCK	F ational a		
	sed (ex: R12, R14		The same		
Contact Inform	nation for Individua	al Who Perform	ned Calculation	s: Joe Buhlig -	Project Manager
	the factor of the contract of	and the latest and th			
Marlin Environ	mental, Inc. Pho	ne: (217) 726-7	7569 x30		
Marlin Environ		ne: (217) 726-7 ilicable	7569 x30 Soil Ty	pe:	Sand
Land Use:				pe:	Sand
Land Use: Groundwater:	Not App	clicable Class II	Soil Ty		
Land Use: Groundwater:	Not App	clicable Class II	Soil Ty	ре:	
Land Use: Groundwater: Mass Limit:	Not App ☐ Class I Yes ☑ No	Class II	Soil Ty	□0.5 □1 □	
Land Use: Groundwater: Mass Limit: Result from S1	Not App ☐ Class I ☐ Yes ☑ No 18/S28 used in R2	Class II If Yes, then Spo	Soil Ty ecify Acreage: No Specif	□ 0.5 □ 1 □ y C _{source} from S18/S	2 「5 「10 「3
Land Use: Groundwater: Mass Limit: FResult from S1	Not App ☐ Class I ☐ Yes ☑ No 18/S28 used in R2 Acreage other th	Class II If Yes, then Spo	Soil Ty ecify Acreage: No Specifust always be	□ 0.5 □ 1 □ y C _{source} from S18/S	2 「5 「10 「3 628 <u>see page 3</u> mg/

Symbol			Unit	Symbol		Unit
ATc	=	70	yr	d	=	cm
AT_{η}			yr	Dair	(-	cm²/s
BW	=	70	kg	Dwater	÷	cm²/s
C _{source}	=	see page 3	mg/L	D _s eff	U⊕ye ii	cm²/s
C(x)	=		mg/L	ED	Œ	yr
C _(x) /C _{source}	=		unitless	EF	=	d/yr

- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.

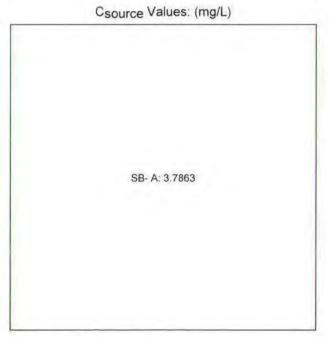
- Inputs must be submitted in the designated unit.

IL 532-2861 LPC 646 8/07 RBCA Input Parameters 1 of 3

Incident #:	2014	0963	Chemical:	Toluene	Land Use:		Not Applicable
Symbol			Unit	Symbol			Unit
erf	=		unitless	RAF _d (PNAs)	=	0.05	unitless
f _{oc}	=		g/g	RAF _d (inorganics)	=	0	unitless
GW _{comp}	=		mg/L	RAF ₀	=	1.0	unitless
GW _{source}	=		mg/L	RBSL _{air} (carcinogenic)	=		μg/m³
H'	=		cm³ _{water} /cm³ _{air}	RBSL _{air} (noncarcinogenic)	=		µg/m³
i	=	0.02	cm/cm	RfD _i	=		mg/kg-d
T)	=	30	cm/yr	RfD _o	=		mg/kg-d
IRair	lel	20	m³/d	SA	=	3,160	cm²/d
IR _{soil}	=		mg/d	S _d	=	200	cm
IR _w	=		L/d	S _w	=	3,444.24	cm
К	=	8.64	cm/d for R15, R19, R26, cm/yr for R24	SFi	H		(mg/kg-d) ⁻¹
Koc	=		cm ³ /g or L/kg	SFo	=		(mg/kg-d)-1
k _s (non-ionizing organics)	=		cm³ _{water} /g _{soil}	THQ	=	1	unitless
k _s (ionizing organics)	=		cm³ _{water} /g _{soil}	TR	=		unitless
k _s (inorganics)	E		cm ³ _{water} /g _{soil}	U	=		cm/d
Ls	=	100	cm	U _{air}	=	225	cm/s
LF _{sw}	=		(mg/L _{water}) /(mg/kg _{soil})	U _{gw}	=		cm/yr
М	=	0.5	mg/cm²	VFp	=		kg/m³
Pe	(e)	6.9 · 10 ⁻¹⁴	g/cm²-s	VF _{samb}	=		(mg/m³ _{air})/mg/kg _{soil}) or kg/m³
RAF _d) - =	0.5	unitless	VF _{ss}	=		kg/m³

Incident #:	2014	0963	Chemical:	Toluene	Lar	nd Use:	Not Applicable
Symbol			Unit	Symbol			Unit
W	=		cm	θ_{as}	=		cm³ _{air} /cm³ _{soil}
w	=		gwater/gsoil	θ_{ws}	=		cm³ _{water} /cm³ _{soil}
X	=	see below	cm	θτ	=		cm ³ /cm ³ _{soil}
$a_{\mathbf{x}}$	=		cm	λ	=	0.011	d-1
α_{y}	=		cm	п	=	3.1416	
α_{z}	=		cm	ρ _b	=		g/cm ³
$\delta_{\rm aut}$	=	200	cm	$\rho_{\rm w}$	=	1	g/cm ³
δ_{gw}	=	200	cm	τ	=	9.46 • 108	S

Equation	Result	Unit(s)
R1	=	mg/kg
R2	=	mg/kg
R7	=	mg/kg
R8	÷	mg/kg
R12	=	mg/kg
R25	=	mg/L



Maximum Predicted Extent of Groundwater Impact (X): (feet from point source)

SB- A; 2.4'

RBCA Input Parameters 3 of 3

DISSOLVED HYDROCARBON CONCENTRATION ALONG CENTERLINE MAXIMUM PREDICTED EXTENT OF GROUNDWATER IMPACT MODELING RBCA EQUATION R26

	Site Details			Sample Details
Site Name & Location:	Downtown 66			ple Location: SB-A
	Peoria, Illinois		Sample	Depth (feet): 0
LUST Incident Number(s):	20140963			
Exposure Pathway:	Soil Component of	f Groundwater Ingestion	i e	
Groundwater Classification:	Class I	er a mana it alies in Beautes		Analyte: Toluene
	3.4600.00			
Concentration at the source (C _s	ource)=	3.7863 mg/L		
Distance along centerline of the				
plume coming from the source		2,400 ft	= 73.15 cm	
First order degradation constant (λ)=	L	0.011 /day	if toluene, lambda=0.011/day	
Aquifer hydraulic conductivity (K)=		1.000E-04 cm/sec =	8,640 cm/day	Porosity
Hydraulic gradient (i)=		0,0200 m/m		Gravel=0.25
Total soil porosity (θ_1) =	Г	0.32 cm ³ /cm ³		Sand=0.32 Silt=0.40
	_	E.W.		Clay=0.36
Source width perpendicular to GW	_		2.077220	Default=0,43
flow direction in horizontal plane (Su)	L	113 ft	3,444.24 cm	
Source width perpendicular to GW				
flow direction in vertical plane (S _d)=		6.56 ft	200 cm	(assuming complete mixing)
Calculated Parameters	D	OO NOT ENTER VALUES II	IERE!	
Longitudinal dispersivity	Ax=	7.3152 cm		
Transverse dispersivity	Ay=	2.4384 cm		
Vertical dispersivity	Az=	0.36576 cm		
Specific discharge	U=	0.54 cm/day		
Sw/(4*SQRT(Ay*X))	B=	64.47150937		
Sd/(2*SQRT(Az*X))	C=	19.32758535		
Error function	erf(B)=	1 To determin	ne error function values,	
Error function	erf(C)=	1 see F46 & K	(46 in the linear interpolation section.	
Actual B value=		64.47150937	Actual C value=	19.32758535
Automatic calculations : Actual erf(B)		1	Actual erf(C)=	1
Solutions				
Solutions	C _(x)			
		no/l		
		ng/l		
	C _{source}			
		ng/l		
E. T. L. S.		30		
Computation of erf(x)				
Source: Abramowitz, M. and I. A. Stegu		nematical Functions, Dover Pu	blications, New York, page 299, formu	ıla 7.1.26
Maximum error in computation = 1.5×10^{-5} x= 64.471509 :				
p= 0.32759				
a1= 0.25482959				
a2= -0.2844967				
a3= 1.42141374				
a4= -1.45315202	27 -1.453152027			
1.06140542				
t= 0.04520735	58 0.1363969			
erf(x)=	1 1			

erf(x)=

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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

EMA Incident # (6- or 8-digit):	2014	0963 IE	PA LPC # (10-digit):	1430650114
ite Name: S & S Infinite Grou	up, Inc.			
ite Address (not a P.O. Box):	400 NE Adam	s Street		
ity: Peoria	County:	Peoria	Zip Code:	61603
eaking UST Technical File				
ier 2 Calculation Informat	ion			
ier 2 Calculation Informat	ion			
quation(s) Used (ex: R12, R14	4, R26): R26: E	Ethylbenzene		
ontact Information for Individu	al Who Perform	ned Calculations:	Joe Buhlig - Projec	ct Manager
farlin Environmental, Inc. Pho	one: (217) 726-7	7569 x30		
and Use: Not App		Soil Type:	San	nd
roundwater: Class I	Class II			
	· · · · · · · · · · · · · · · · · · ·			
ass Limit: Yes X No	If Yes, then Spe	ecify Acreage:	T0.5 T1 T2	5 10 3
esult from S18/S28 used in R2	26?	No Specify C	source from \$18/\$28	see page 3 mg/
esult from S18/S28 used in R2			_	see page 3 mg/l
	an defaults mo	ust always be ro	unded up.	

Symbol			Unit	Symbol		Unit
ATc	=	70	yr	d	=	cm
AT_η	=		yr	Dair)=.	cm²/s
BW	v à	70	kg	Dwater	=	cm²/s
C _{source}	=	see page 3	mg/L	D _s eff	=	cm ² /s
C _(x)	=		mg/L	ED	÷	yr
C _(x) /C _{source}	=		unitless	EF	=	d/yr

- Inputs must be submitted in the designated unit.

IL 532-2861 LPC 646 8/07 RBCA Input Parameters 1 of 3

Incident #:	2014	133	Chemical: E	Ethylbenzene		nd Use:	Not Applicable
Symbol			Unit	Symbol			Unit
erf	=		unitless	RAF _d (PNAs)	=	0.05	unitless
f _{oc}	=		g/g	RAF _d (inorganics)	=	0	unitless
GW _{comp}	=		mg/L	RAF ₀	=	1.0	unitless
GW _{source}	=		mg/L	RBSL _{air} (carcinogenic)	=		μg/m³
H'	=		cm ³ water/cm ³ air	RBSL _{air} (noncarcinogenic)	=		µg/m³
-1	=	0.02	cm/cm	RfDi	=		mg/kg-d
T	=	30	cm/yr	RfD _o	H		mg/kg-d
IR _{air}		20	m³/d	SA	=	3,160	cm²/d
IR _{soil}	=		mg/d	S _d	=	200	cm
IR _w	=		L/d	S _w	=	3,444.24	cm
К	=	8.64	cm/d for R15, R19, R26; cm/yr for R24	SF _i	=		(mg/kg-d) ⁻¹
K _{oc}	=		cm ³ /g or L/kg	SF _o	=		(mg/kg-d)-1
k _s (non-ionizing organics)	=		cm ³ _{water} /g _{soil}	THQ	=	1	unitless
k _s (ionizing organics)	=		cm ³ water/g _{soil}	TR	=		unitless
k _s (inorganics)	=		cm ³ _{water} /g _{soil}	U	=		cm/d
L _s	=	100	cm	U _{air}	=	225	cm/s
LF _{sw}	=		(mg/L _{water}) /(mg/kg _{soil})	U _{gw}	=		cm/yr
М	=	0.5	mg/cm²	VFp	=		kg/m³
Pe	=	6.9 • 10-14	g/cm²-s	VF _{samb}	=		(mg/m³ _{air})/mg/kg _{soil} or kg/m³
RAF _d	=	0.5	unitless	VF _{ss}	=		kg/m³

RBCA Input Parameters 2 of 3

Incident #:	2014	0963	Chemical: _	Ethylbenzene	La	nd Use:	Not Applicable
Symbol			Unit	Symbol			Unit
W	=		cm	θ_{as}	=		cm ³ air/cm ³ soil
w	=		gwater/gsoil	θ_{ws}	=		cm ³ water/cm ³ soil
X	=	see below	cm	θ_{T}	=		cm ³ /cm ³ _{soil}
α_{x}	=		cm	λ	.=.	0.003	d-1
α_{y}	-		cm	п	=	3.1416	
α_z	=		cm	$ ho_{ m b}$	=		g/cm ³
δ_{air}	.=	200	cm	ρ _w	=	1	g/cm ³
δ_{gw}	ы	200	cm	τ	-	9.46 •108	s

Equation	Result	Unit(s)
R1		mg/kg
R2	E	mg/kg
R7	L#	mg/kg
R8	(i	mg/kg
R12	=	mg/kg
R25	14	mg/L

Csource Values: (mg/L)

SB- A: 1.8677

Maximum Predicted Extent of Groundwater Impact (X):

(feet from point source)

SB- A: 6'

RBCA Input Parameters 3 of 3

DISSOLVED HYDROCARBON CONCENTRATION ALONG CENTERLINE MAXIMUM PREDICTED EXTENT OF GROUNDWATER IMPACT MODELING RBCA EQUATION R26

	Site Details			ole Details
Site Name & Location:	Downtown 66			cation: SB-A
	Peoria, Illinois		Sample Depth	ı (feet): ()
LUST Incident Number(s):	20140963		A 11 11 11 11 11 11 11 11 11 11 11 11 11	
Exposure Pathway:	Soil Component of Gr	roundwater Ingestion		
Groundwater Classification			A	nalyte: Ethylbenzene
Concentration at the source (C _{source})=	1.8677 mg/L		
Distance along centerline of t	he			
plume coming from the sou	rce (X)=	6.00 ft =	182.88 cm	
		0.000	P 4 1 1 0 007/1	
First order degradation constant (λ)=		0.003 /day	if ethylbenzene, lambda=0.003/day	
Aquifer hydraulic conductivity (K)=		1.000E-04 cm/sec =	8.640 cm/day	
		0.0000		Porosity Gravel=0.25
Hydraulic gradient (i)=		0.0200 m/m		Gravel=0.25 Sand=0.32
Total soil porosity (θ_T) =		0.32 cm ³ /cm ³ seel		Silt=0.40
				Clay=0.36
Source width perpendicular to GW			******	Default=0.43
flow direction in horizontal plane (5	S _w)=	113 ft =	3,444.24 cm	
Source width perpendicular to GW				
flow direction in vertical plane (Sa)	#	6.56 ft =	200 cm (assum	ing complete mixing)
Calculated Parameters	DO N	NOT ENTER VALUES HERI	21	
	D 01			
Longitudinal dispersivity	Ax=	18.288 cm		
Transverse dispersivity	Ay=	6.096 cm		
Vertical dispersivity	Az=	0.9144 cm		
Specific discharge Sw/(4*SQRT(Ay*X))	U= B=	0.54 cm/day 25.78860375		
Sd/(2*SQRT(Az*X))	C=	7.731034141		
Error function	erf(B)=	1 To determine err	or function values,	
Error function	erf(C)=	1 see F46 & K46 i	n the linear interpolation section.	
Actual B value=		25.78860375	Actual C value= 7.7	31034141
Automatic calculations : Actual erf(E	3)	1	Actual erf(C)=	1
Solutions				
	$C_{(x)}$			
	0.7 mg/	1		
	C _{source}			
	0.00 mg/	I		
Computation of erf(x)				
Source: Abramowitz, M. and I. A. Ste	egun, 1972, Handbook of Mathem	atical Functions, Dover Publica	tions, New York, page 299, formula 7.1.26	i
Maximum error in computation = 1.5	x 10^-7			
x= 25.7886 p= 0.327				
al= 0.25482				

-0.284496736

1.421413741

-1.453152027

1.061405429

0.105841195

1

a2=

a3=

erf(x)=

-0.284496736

1.421413741

-1.453152027

1.061405429

0.283076179

1

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

IEMA Inc	ident # (6- or 8-digit):	2014	0963	EPA LPC # (10-di	igit): 1430650114
Site Nam	e: S & S Infinite Grou	ıp, Inc.			
Site Addr	ess (not a P.O. Box):	400 NE Adam	ns Street		
City:	Peoria	County: _	Peoria	Zip Code: _	61603
Leaking L	JST Technical File				
Tier 2 Ca	alculation Informat	ion			
	(s) Used (ex: R12, R14		200 00 07 000		
Contact Ir	oformation for Individu	al Who Perform	ned Calculations 7569 x30		roject Manager
Marlin En	oformation for Individu	al Who Perform one: (217) 726-7	ned Calculations		roject Manager

Symbol			Unit	Symbol		Unit
AT _c	=	70	yr	d	=	cm
AT_{η}	÷		yr	Dair	=	cm²/s
BW	=	70	kg	Dwater	=	cm²/s
C_{source}	\ \	see page 3	mg/L	D _s eff	=	cm²/s
C _(x)	Ħ		mg/L	ED)=\	yr
C _(x) /C _{source}	=		unitless	EF)=	d/yr

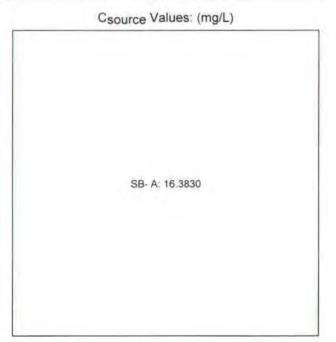
- Inputs must be submitted in the designated unit.

IL 532-2861 LPC 646 8/07 RBCA Input Parameters 1 of 3

Symbol			Unit	Symbol			Unit
erf	=		unitless	RAF _d (PNAs)	=	0.05	unitless
foc	=		g/g	RAF _d (inorganics)	=	0	unitless
GW _{comp}	=		mg/L	RAF ₀	=	1.0	unitless
GW _{source}	#		mg/L	RBSL _{air} (carcinogenic)	Ē		μg/m³
H'	-		cm³ _{water} /cm³ _{air}	RBSL _{air} (noncarcinogenic)	=		μg/m³
i	±	0.02	cm/cm	RfD _i	=		mg/kg-d
1	=	30	cm/yr	RfDo	п		mg/kg-d
IR _{air}	=	20	m³/d	SA	=	3,160	cm²/d
IR _{soil}	=		mg/d	S _d	=	200	cm
IR _w	=		L/d	S _w	=	3,444.24	cm
К	=	8.64	cm/d for R15, R19, R26, cm/yr for R24	SF,	=		(mg/kg-d)-1
K _{oc}	=		cm ³ /g or L/kg	SF _o	=		(mg/kg-d) ⁻¹
k _s (non-ionizing organics)	=		cm ³ _{water} /g _{soil}	THQ	=	1	unitless
k _s (ionizing organics)	=		cm ³ _{water} /g _{soil}	TR	=		unitless
k _s (inorganics)	=		cm ³ water/g _{soil}	U	=		cm/d
L _s	=	100	cm	U _{air}	n	225	cm/s
LF _{sw}	=		(mg/L _{water}) /(mg/kg _{soil})	U _{gw}	=		cm/yr
М	=	0.5	mg/cm²	VFp	=		kg/m³
Pe	é,	6.9 · 10 ⁻¹⁴	g/cm²-s	VF _{samb}	=	(1	mg/m³ _{air})/mg/kg _{soil} or kg/m³
RAF _d	=	0.5	unitless	VFss	=		kg/m ³

Incident #:	2014	0963	Chemical:	Total Xylenes	Lar	nd Use:	Not Applicable
Symbol			Unit	Symbol			Unit
W	=		cm	θ_{as}	=		cm³ _{air} /cm³ _{soil}
w	=		gwater/gsoil	θ_{ws}	=		cm ³ water/cm ³ soil
Х	=	see below	cm	θ_{T}	=		cm ³ /cm ³ _{soil}
a_{x}	=		cm	λ	=	0.0019	d-1
α_{y}	=		cm	n	=	3.1416	
α_z	=		cm	ρ	=		g/cm ³
$\delta_{\rm au}$	=	200	cm	ρ _w		1	g/cm ³
$\delta_{\rm gw}$	=	200	cm	τ	=	9.46 •108	s

Equation	Result	Unit(s)
R1	ė,	mg/kg
R2	=	mg/kg
R7	=	mg/kg
R8	=	mg/kg
R12	=	mg/kg
R25	4	mg/L



Maximum Predicted Extent of Groundwater Impact (X): (feet from point source)

SB- A: 4.8°

RBCA Input Parameters 3 of 3

DISSOLVED HYDROCARBON CONCENTRATION ALONG CENTERLINE MAXIMUM PREDICTED EXTENT OF GROUNDWATER IMPACT MODELING RBCA EQUATION R26

	Site Details			Sample Details	
Site Name & Location:	Downtown 66			nple Location: SB	·A
	Peoria, Illinois		Sampl	e Depth (feet): 0	
LUST Incident Number(s):	20140963				
Exposure Pathway:	Soil Component of Ground	lwater Ingestion			
Groundwater Classification:	Class I			Analyte: Tot	al Xylenes
Concentration at the source (C _s	_{ource})= 16.	3830 mg/L			
Distance along centerline of the					
plume coming from the source	e (X)=	4.80 ft =	146.30 cm		
F . I . I		0.00101/4	:c	10/4	
First order degradation constant (λ)=		0.0019 /day	if total xylenes, lambda=0.00	19/day	
Aquifer hydraulic conductivity (K)=	1.00	00E-04 cm/sec =	8.640 cm/day	102	
H 1		0.0200			Porosity
Hydraulic gradient (i)=		0.0200 m/m			Gravel=0.25 Sand=0.32
Total soil porosity (θ_T) =		0.32 cm ³ /cm ³ scal			Silt=0.40
					Clay=0.36
Source width perpendicular to GW		1120	2 444 74		Default=0.43
flow direction in horizontal plane (Sw)		113 ft =	3,444.24 cm		
Source width perpendicular to GW					
flow direction in vertical plane (S _d)=		6,56 ft =	200 cm	(assuming complete m	ixing)
Calculated Parameters	DO NOT E	NTER VALUES HERE!			
Longitudinal dispersivity	Ax=	4.6304 cm			
Transverse dispersivity	Ay=	4.8768 cm			
Vertical dispersivity	Az=	.73152 em			
Specific discharge	U=	0.54 cm/day			
Sw/(4*SQRT(Ay*X))	B= 32.235				
Sd/(2*SQRT(Az*X)) Error function	C= 9.6637 erf(B)=	1 To determine error	function values		
Error function	erf(C)=		ne linear interpolation section.		
Actual B value=	32.235	575469	Actual C value=	9.663792676	
Automatic calculations : Actual erf(B)		1	Actual erf(C)=	1	
Solutions					
	$C_{(x)}$				
	10.0 mg/l				
	C _{source}				
	0.00 mg/l				
Computation of erf(x)					
S Mac and the second second	and the second control of		31 37 1 380 6	1. 7.1.26	
Source: Abramowitz, M. and I. A. Stegu Maximum error in computation = 1.5 x		unctions, Dover Publication	ns, New York, page 299, form	iula 7.1.26	
s= 32.235754					
0.32759					
a1= 0.2548295					

-0.284496736

1.421413741

-1.453152027

1.061405429

0.240051517

1

-0.284496736

1.421413741

-1.453152027 1.061405429

0.086504095

1

erf(x)=

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Illinois Environmental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

IEMA lesident	# /6 or 0 digit):	20140	2062	IEPA LPC # (10-dig	1420650114
IEMA Incident	# (6- or 8-digit):	20140	1903	IEPA LPC # (10-dig	1430650114
Site Name: S	& S Infinite Group	p, Inc.			
Site Address	(not a P.O. Box):	400 NE Adams	s Street		
City:	Peoria	County:	Peoria	Zip Code:	61603
Leaking UST	Technical File				
Tier 2 Calcu	lation Informati	on			
Equation(s) U	sed (ex: R12, R14	, R26): R26: B	enzo (a) anth	racene	
Contact Inform	nation for Individua	al Who Perform	ed Calculation	ns: Joe Buhlig - Pro	oject Manager
Marlin Enviror	nmental, Inc. Phor	ne: (217) 726-7	569 x30		
Land Use:	Not Appl	icable	Soil Ty	pe:	Sand
Groundwater:	Class I	Class II			
Mass Limit: [Yes 🗵 No I	f Yes, then Spe	cify Acreage:	□0.5 □1 □2	□ 5 □ 10 □ 30
Result from S	18/S28 used in R2	6?	No Specif	y C _{source} from S18/S28	3 see page 3 mg/L
- Mass Limit	Acreage other tha	an defaults mu	st always be	rounded up.	
	se site-specific pa ound Storage Tai		ere allowed c	ould affect payment	from
			sions, distar	ice, etc. must also b	e submitted.
- Innute must	be submitted in	the designated	d unit.		

Symbol			Unit	Symbol		Unit
ATc	=	70	yr	d	=	cm
AT_{η}	=		yr	Dair	=	cm ² /s
BW	=	70	kg	Dwater	=	cm²/s
C _{source}	=	see page 3	mg/L	D _s eff	=	cm²/s
C _(x)	=		mg/L	ED	=	yr
C _(x) /C _{source}	=		unitless	EF	=	d/yr

IL 532-2861 LPC 646 8/07 RBCA Input Parameters 1 of 3

Symbol			Unit	Symbol			Unit
Зуппон			Oille	Symbol	_		Onic
erf	=		unitless	RAF _d (PNAs)	=	0.05	unitless
f _{oc}	=		g/g	RAF _d (inorganics)	7	0	unitless
GW_{comp}	=		mg/L	RAF ₀	=	1.0	unitless
GW _{source}	=		mg/L	RBSL _{air} (carcinogenic)	=		μg/m³
Н	=		cm³ _{water} /cm³ _{air}	RBSL _{air} (noncarcinogenic)	=		µg/m³
ı		0.02	cm/cm	RfDi	=		mg/kg-d
f	=	30	cm/yr	RfD。	=		mg/kg-d
IR _{air}	=	20	m³/d	SA	=	3,160	cm²/d
IR _{soil}	=		mg/d	S _d	=	200	cm
IR _w	=		L/d	S _w	=	3,444.24	cm
К	=	8.64	cm/d for R15, R19, R26; cm/yr for R24	SFi	A		(mg/kg-d) ⁻¹
K _{oc}	=		cm ³ /g or L/kg	SF _o	=		(mg/kg-d)-1
k _s (non-ionizing organics)	=		cm³ _{water} /g _{soil}	THQ	=	1	unitless
k _s (ionizing organics)			cm³ _{water} /g _{soil}	TR	=		unitless
k _s (inorganics)	=		cm ³ water/g _{soil}	U	=		cm/d
Ls	=	100	cm	U _{air}	=	225	cm/s
LF_sw	=		(mg/L _{water}) /(mg/kg _{soil})	U _{gw}	=		cm/yr
М	=	0.5	mg/cm²	VFp	=		kg/m³
Pe	=	6.9 ·10 ⁻¹⁴	g/cm²-s	VF _{samb}	=		(mg/m³ _{air})/mg/kg _{soil} or kg/m³
RAF _d	=	0.5	unitless	VF _{ss}	=		kg/m³

RBCA Input Parameters 2 of 3

Incident #:	2014	0963	Chemical: Be	nzo (a) anthracene	Lar	nd Use: N	lot Applicable
Symbol			Unit	Symbol			Unit
W	Ŧ		cm	θ_{as}	=		cm³ _{air} /cm³ _{soil}
w	=		9water/9soil	θ_{ws}	=		cm ³ _{water} /cm ³ _{soil}
х	=	see below	cm	Θ_{T}	=		cm ³ /cm ³ soil
α_{x}	=		cm	λ	=	0.00051	d-1
α _y	=		cm	п	=	3.1416	
α_z	¥		cm	ρ	=		g/cm ³
δ_{air}	=	200	cm	ρω	=	1	g/cm ³
$\delta_{\rm gw}$	1 😩 1	200	cm	τ	â	9.46 •108	s

Csource Values: (mg/L)

Equation	Result	Unit(s)
R1	=	mg/kg
R2	=	mg/kg
R7	· · ·	mg/kg
R8	=	mg/kg
R12	=	mg/kg
R25	=	mg/L

SB- 8 (2'-4'): 0.0689

Maximum Predicted Extent of Groundwater Impact (X): (feet from point source)

SB- 8 (2'-4'): 135'

RBCA Input Parameters 3 of 3

DISSOLVED HYDROCARBON CONCENTRATION ALONG CENTERLINE MAXIMUM PREDICTED EXTENT OF GROUNDWATER IMPACT MODELING RBCA EQUATION R26

	Site Details			Sample Details			
Site Name & Location:	Downtown 66 Peoria, Illinois			e Location: SB-8 epth (feet): 2'-4'			
LUST Incident Number(s):	20140963						
Exposure Pathway: Groundwater Classification:		nt of Groundwater Ingestion		Analyte: Benzo(a)anthracene			
Concentration at the source (C	source)=	0.0689 mg/L					
Distance along centerline of th	ie						
plume coming from the sour	ce (X)=	135.00 ft	= 4,114.80 cm				
First order degradation constant (λ)=		0.00051 /day	if benzo(a)anthracene, lambda=0	00051/day			
Aquifer hydraulic conductivity (K)=		1.000E-04 cm/sec =	8.640 cm/day				
			20225 100 100	Porosity			
Hydraulic gradient (i)		0.0200 m/m		Gravel=0.25 Sand=0.32			
Total soil porosity (θ ₁)		0.43 cm ³ /cm ³ _{sort}		Silt=0.40			
companies convision		20,00		Clay=0.36			
Source width perpendicular to GW flow direction in horizontal plane (S _n	·)=	20 ft	609,60 cm	Default=0.43			
Source width perpendicular to GW flow direction in vertical plane (S _d)=		6.56 ft =	200 cm (assuming complete mixing)			
Calculated Parameters		DO NOT ENTER VALUES HE	ERE!				
Longitudinal dispersivity	Ax-	411.48 cm					
Transverse dispersivity	Ay-	137.16 cm					
Vertical dispersivity	Az=	20.574 cm					
Specific discharge	U=	0.401860465 cm/day					
Sw/(4*SQRT(Ay*X)) Sd/(2*SQRT(Az*X))	B= C=	0.202860206 0.343601517					
Error function	erf(B)=	0.225801524 To determine	error function values,				
Error function	erf(C)=	0.372980302 see F46 & K4	66 in the linear interpolation section.				
Actual B value=		0.202860206	Actual C value=	0.343601517			
Automatic calculations : Actual erf(B)	ì	0.225801524	Actual erf(C)=	0.372980302			
Solutions							
	C(x)						
	0.00013	mg/l					
	C _{source}	_					
	0.00	mg/l					
Computation of erf(x)							
	1072 U #1 F	Mathematical Constant Day B. L.	lications New York was 200 E	7 1 76			
Source: Abramowitz, M. and I. A. Steg Maximum error in computation = 1.5 x		mainematical runctions, Dover Publ	lications, New York, page 299, formula	771.49			
x= 0.202860	206 0.3436015						
0.202860							

0.3275911

0.254829592

-0.284496736 1.421413741

-1.453152027

1.061405429

0.937685898

0.225801524

0.3275911

0.254829592 -0.284496736

1.421413741

-1.453152027

1.061405429

0.898827283

0.372980302

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

IEMA Incid	ent # (6- or 8-digit):	20140	963 IE	PA LPC # (10-digit):	1430650114
Site Name:	S & S Infintie Grou	p, Inc.			
Site Addres	ss (not a P.O. Box):	400 NE Adam	s Street		
City:	Peoria	County: _	Peoria	Zip Code:	61603
Leaking US	ST Technical File				
Tion 2 Cal	culation Informati	00			
rici z oui	culation informati	011			
Equation(s	Used (ex: S12, S17	S28): S28/S	18: Soil Leachin	ng to Groundwater - Be	enz./Ethylbenz.
The state of the state of	Carlo Branch State			ng to Groundwater - Be	
- Land	Carlo Branch State			ng to Groundwater - Be	
Contact Info	Carlo Branch State	al Who Perform	ed Calculations	The state of the s	
Contact Info	ormation for Individua	al Who Perform ne: (217) 726-7	ed Calculations 569 x30	: Joe Buhlig - Proje	
Contact Info Marlin Envi Land Use:	ormation for Individua ironmental, Inc. Phor not appli	al Who Perform ne: (217) 726-7 icable	ed Calculations	: Joe Buhlig - Proje	ect Manager
Contact Info	ormation for Individua ironmental, Inc. Phor not appli	al Who Perform ne: (217) 726-7	ed Calculations 569 x30	: Joe Buhlig - Proje	ect Manager
Contact Info Marlin Envi Land Use: Groundwate	ormation for Individual ironmental, Inc. Phore not apple er: X Class	al Who Perform ne: (217) 726-7 icable	ed Calculations 569 x30 Soil Type	Joe Buhlig - Proje	ect Manager
Contact Info Marlin Envi Land Use: Groundwate	ormation for Individual ironmental, Inc. Phore not apple er: X Class	al Who Perform ne: (217) 726-7 icable	ed Calculations 569 x30 Soil Type	: Joe Buhlig - Proje	ect Manager
Contact Info Marlin Envi Land Use: Groundwate Mass Limit:	ormation for Individual ironmental, Inc. Phore not apple er: X Class	al Who Perform ne: (217) 726-7 icable Class II f Yes, then Spe	ed Calculations 569 x30 Soil Type ecify Acreage:	Joe Buhlig - Proje	ect Manager
Contact Info Marlin Envi Land Use: Groundwate Mass Limit: - Mass Lim - Failure to	er: X Class I X Yes No Init Acreage other the ouse site-specific p	al Who Perform ne: (217) 726-7 icable Class II f Yes, then Spe an defaults m arameters wh	sed Calculations 569 x30 Soil Type ecify Acreage: ust always be r	Joe Buhlig - Proje	ect Manager
Contact Info Marlin Envi Land Use: Groundwate Mass Limit: - Mass Lim - Failure to the Unde	er: X Class I X Yes No init Acreage other the ouse site-specific perground Storage Ta	al Who Perform ne: (217) 726-7 icable Class II f Yes, then Spean defaults marameters whink Fund.	Soil Type ecify Acreage: ust always be rere allowed con	Joe Buhlig - Proje Sa	ect Manager nd 5

- Inputs must be submitted in the designated unit.

Symbol			Unit	Symbol			Unit
AT (ingestion)	=		yr	da	=		m
AT (inhalation)	=		yr	ds	=	4.2672	m
AT_{c}	=	70	yr	D _A	=		cm²/s
BW	=		kg	Di	=		cm ² /s
C _{sat})=/		mg/kg	D _w	=		cm²/s
Cw	=		mg/L	DF	=	20	unitless
d	=	2	m	ED (ingestion o carcinogens)	f =		yr

IL 532-2860 LPC 645 8/07 SSL Input Parameters 1 of 3

Incident #:	2014	40963	Chemical: BT	EX, Benzo (a)	Lar	nd Use:	not applicable
Symbol			Unit	Symbol			Unit
ED (inhalation of carcinogens)	=		yr	K _{oc}	E		cm ³ /g or L/kg
ED (ingestion of noncarcinogens)	=		yr	Ks	H		m/yr
ED (inhalation of noncarcinogens)	=		уг	L	=	39.624	m
ED (ingestion of groundwater)	=		yr	PEF			m³/kg
ED _{M-L}	=	70	yr	PEF'	=		m³/kg
EF	=		d/yr	Q/C (VF equations)	=		(g/m ² -s)/ (kg/m ³)
F(x)	=	0.194	unitless	Q/C (PEF equations)	=		(g/m ² -s)/ (kg/m ³)
foc	=		g/g	RfC	=		mg/m³
GW _{obj}	=		mg/L	RfD _o	=		mg/(kg-d)
H'	=		unitless	S	Φ.		mg/L
1	=	0.0131	m/m	SF _o	Ξ		(mg/kg-d) ⁻¹
j.	=	0.3	m/yr	Т	=		S
I _{M+L}	=	0.18	m/yr	T _{M-L}	*	30	yr
IF _{soil-adj}	=	114	(mg-yr)/(kg-d)	THQ	=	1	unitless
IR _{soil}	=		mg/d	TR	=		unitless
IR _w	=		L/d	Um	=	4.69	m/s
к	=	0.46	m/yr	URF	=		(µg/m³)-1
K _d (non-ionizing organics)	=		cm ³ /g or L/kg	Ut	=	11.32	kg/m ³
K _d (ionizing organics)	=		cm ³ /g or L/kg	v	÷		unitless
K _d (inorganics)	=		cm ³ /g or L/kg	VF	=		m³/kg

Incident #:	20140963	Chemical:	BTEX, Benzo (a)	Land L	lse: _	not applicable
Symbol		Unit	Symbol			Unit
VF'	ŧ	m³/kg	θ _w	=		L _{water} /L _{soil}
VF _{M-L}	=	m³/kg	ρ _b	=	1.5	kg/L or g/cm ³
VF' _{M-L}	=	m³/kg	Ps	=		g/cm ³
η	=	L _{pore} /L _{soil}	ρω	=	1	g/cm ³
θ_a	=	L_{air}/L_{soil}	1/(2b+3)	=		unitless

Equation	Result	Unit(s)
S1	=	mg/kg
S2	ė.	mg/kg
S3	=	mg/kg
S4	=	mg/kg
S5	=	mg/kg
S6	= 1	mg/L
S 7	=	mg/kg
S17	= 1	mg/kg
S28	ė	mg/kg
S29	=	mg/L

Source Area Concentration Values: (mg/Kg)

SB-A Benzene: 1.460
SB-A Toluene: 104
SB-A Ethylbenzene: 51.3
SB-A Total Xylenes: 450
SB-8 (2'-4') Benzo (a) anthracene: 5.30

Soil to Groundwater Leachate Potential (GW_{obj}): (mg/L)

SB-A Benzene: 0.0532 SB-A Toluene: 3.7863 SB-A Ethylbenzene: 1.8677 SB-A Total Xylenes: 16.3830 SB-8(2'-4')Benzo(a)anthracene: 0.0689

SSL Input Parameters 3 of 3

Downtown 66 SB-A: BENZENE

Remediation Objective = (milligrams per kilogram, mg/kg)

 $\frac{\left(C_{w} \bullet I_{M-L} \bullet ED_{M-L}\right)}{\left(\rho_{b} \bullet d_{s}\right)}$

Target Soil Leachate Concentration Cw = (milligrams per kilogram, mg/kg)

 $DF \bullet GW_{obj}$

Dilution Factor DF= (unitless) 20

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr	Int	0.18		
GW _{obi}	mg/L	Soil to Groundwater P	otential Le	achate Concentration	0.0532
			Class I	Class II	
		Benzene	0.005	0.025	
		Toluene	1	2.5	
		Ethylbenzene	0.7	1	
		Xylenes	10	10	
d _s	m	De	pth of Source	ce	4.2672
ED_{M-L}	year	Exposure	Duration for	r Eq S28	70
ρb	Kg/L	Dry S	oil Bulk De	nsity	2.15

1.4600

MODEL CALCULATED OUTPUTS:

DF= 20
Cw= 1.063075

Soil Concentration in mg/Kg:

REFERE	NCE FOR IN	PUT PARAMETERS
		ρb
	Gravel	2
Site-Specific,	Sand	1.8
or:	Silt	1.6
	Clay	1.7

Downtown 66

SB-A: Toluene

Remediation Objective = (milligrams per kilogram, mg/kg) $\frac{\left(C_{w} \bullet I_{M-L} \bullet ED_{M-L}\right)}{\left(\rho_{b} \bullet d_{s}\right)}$

Target Soil Leachate Concentration Cw = (milligrams per kilogram, mg/kg)

 $DF \bullet GW_{obj}$

Dilution Factor DF= (unitless)

20

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values	
I _{M-L}	m/yr	In	filtration Rat	e	0.18	
GW _{obj}	mg/L	Soil to Groundwater Potential Leachate Concentration		3.7863		
			Class I	Class II		
	1	Benzene	0.005	0.025		
		Toluene	1	2.5		
		Ethylbenzene	0.7	1		
		Xylenes	10	10		
d _s	m	De	Depth of Source			
ED _{M-L}	year	Exposure	Duration for	r Eq S28	70	
ρb	Kg/L	Dry S	Soil Bulk De	nsity	2.15	

104.0000

MODEL CALCULATED OUTPUTS:

DF= 20 Cw= 75.725867

REFERE	NCE FOR IN	PUT PARAMETERS
		ρb
	Gravel	2
Site-Specific,	Sand	1.8
or:	Silt	1.6
	Clay	1.7

Soil Concentration in mg/Kg: (calculated using standard parameter value for d, mixing zone depth)

Downtown 66

SB-A: Ethylbenzene

Remediation Objective = (milligrams per kilogram, mg/kg)

 $\frac{\left(C_{w} \bullet I_{M-L} \bullet ED_{M-L}\right)}{\left(\rho_{b} \bullet d_{s}\right)}$

Target Soil Leachate Concentration Cw = (milligrams per kilogram, mg/kg)

 $DF \bullet GW_{obj}$

Dilution Factor DF= (unitless)

20

MODEL PARAMETERS INPUT:

Symbol	Unit	Pa	rameter		Values	
I _{M-L}	m/yr	Infilt	ration Ra	te	0.18	
GW _{obj}	mg/L	Soil to Groundwater Pot	ential Le	achate Concentration	1.8677	
100			Class 1	Class II		
		Benzene	0.005	0.025		
		Toluene	1	2.5		
	1	Ethylbenzene	0.7	1	0	
		Xylenes	10	10	A plant of	
d _s	m	Dept	Depth of Source			
ED _{M-L}	year	Exposure D	uration fo	r Eq S28	70	
ρb	Kg/L	Dry Soi	Bulk De	nsity	2.15	

51.3000

MODEL CALCULATED OUTPUTS:

DF= 20 Cw= 37.353240

Soil Concentration in mg/Kg:

REFERE	NCE FOR IN	PUT PARAMETERS
		ρb
	Gravel	2
Site-Specific,	Sand	1.8
or:	Silt	1.6
N. C.	Clay	1.7

Downtown 66

SB-A: Total Xylenes

Remediation Objective = (milligrams per kilogram, mg/kg)

 $\frac{\left(C_{w} \bullet I_{M-L} \bullet ED_{M-L}\right)}{\left(\rho_{b} \bullet d_{s}\right)}$

Target Soil Leachate Concentration Cw = (milligrams per kilogram, mg/kg)

 $DF \bullet GW_{obj}$

Dilution Factor DF= (unitless)

20

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr	In	filtration Rat	te	0.18
GW _{obi}	mg/L	Soil to Groundwater Potential Leachate Concentration			16.3830
			Class I	Class II	-
		Benzene	0.005	0.025	1
		Toluene	1	2.5	
		Ethylbenzene	0.7	1	A.
		Xylenes	10	10	
d_s	m	De	epth of Source	ce	4.2672
ED _{M-L}	year	Exposure	Duration for	r Eq S28	70
ρb	Kg/L	Dry S	Soil Bulk De	nsity	2.15

450,0000

MODEL CALCULATED OUTPUTS:

DF= 20 Cw= 327.660000

Soil Concentration in mg/Kg:

REFERE	NCE FOR IN	PUT PARAMETERS	
		ρb	
	Gravel	2	
Site-Specific,	Sand	1.8	
or:	Silt	1.6	
	Clay	1.7	

Downtown 66

SB-8 (2'-4'): Benzo (a) anthracene

Remediation Objective = (milligrams per kilogram, mg/kg)

 $\frac{\left(C_{w} \bullet I_{M-L} \bullet ED_{M-L}\right)}{\left(\rho_{b} \bullet d_{s}\right)}$

Target Soil Leachate Concentration Cw = (milligrams per kilogram, mg/kg)

 $DF \bullet GW_{obj}$

Dilution Factor DF= (unitless)

20

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr	In	filtration Rat	e	0.18
GW _{obj}	mg/L	Soil to Groundwater 1	Soil to Groundwater Potential Leachate Concentration		0.0689
			Class I	Class II	
		Benzene	0.005	0.025	
		Toluene	1	2.5	
		Ethylbenzene	0.7	1	
		Xylenes	10	10	
d _s	m	De	epth of Source	e	1.524
ED_{M-L}	year	Exposure	Duration for	r Eq S28	70
ρb	Kg/L	Dry S	Soil Bulk De	nsity	2.15

MODEL CALCULATED OUTPUTS:

DF= 20 Cw= 1.378252 Soil Concentration in mg/Kg: 5.3000

REFERE	NCE FOR IN	PUT PARAMETERS	
		ρb	
	Gravel	2	
Site-Specific,	Sand	1.8	
or:	Silt	1.6	
-360	Clay	1.7	

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A.	Site	Identification

Site Address (not a P.O. Box):	AND NE Ad	ame Street				
City: Peoria	County:			Zip Code:	61603	3
Leaking UST Technical File						
Tier 2 Calculation Informati	on					
Her 2 Calculation Informati	OII					
Equation(s) Used (ex: S12, S17	S28): S2	9: Soil Saturat	ion Limi	t		
		and the same of			Project	Manager Ma
Contact Information for Individua	al Who Perfo	and the same of			Project	Manager, Ma
	al Who Perfo	and the same of			Project	Manager, Ma
Contact Information for Individua	al Who Perfo	ormed Calcula		Joe Buhlig	Project	Manager, Ma
Contact Information for Individual Environmental, Inc. (217) 726-7 Land Use: not applicable	Who Perfo	ormed Calcula	tions:	Joe Buhlig	Project	Manager, Ma
Contact Information for Individua Environmental, Inc. (217) 726-7	il Who Perfo	ormed Calcula Soil	Type:	Joe Buhlig		

- the Underground Storage Tank Fund.
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

Symbol			Unit	Symbol		Unit
AT (ingestion)			уг	d _a	=	m
AT (inhalation)	=		yr	d _s	-	m
AT _c	-	70	yr	D _A	re/	cm ² /s
BW	=		kg	Di	Te.	cm ² /s
C _{sat}	=		mg/kg	D _w	· e	cm ² /s
C _w	=		mg/L	DF		unitless
d	=		m	ED (ingestion of carcinogens)	of =	yr

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Symbol			Unit	Symbol			Unit
ED (inhalation of carcinogens)	=		yr	Koc	=	see page 3	cm ³ /g or L/kg
ED (ingestion of noncarcinogens)	=		yr	K _s	=		m/yr
ED (inhalation of noncarcinogens)	=		yr	L	ш		m
ED (ingestion of groundwater)	=		yr	PEF	=		m³/kg
ED _{M-L}	=	70	yr	PEF'	=		m³/kg
EF	=		d/yr	Q/C (VF equations)	=		(g/m²-s)/ (kg/m³)
F(x)	=	0.194	unitless	Q/C (PEF equations)	=		(g/m²-s)/ (kg/m³)
f _{oc}	=	0.0136	g/g	RfC	=		mg/m ³
GW_{obj}	=		mg/L	RfD _o	=		mg/(kg-d)
H'	=	see page 3	unitless	S	2	see page 3	mg/L
i	=		m/m	SF _o	=		(mg/kg-d)-1
İ	=	0.3	m/yr	Т	=		s
I _{M-L}	=	0.18	m/yr	T _{M-L}	=	30	yr
IF _{soil-adj}	=	114	(mg-yr)/(kg-d)	THQ	=	1	unitless
IR _{soil}	=		mg/d	TR	=		unitless
IR _w	=		L/d	Um	=	4.69	m/s
к	=		m/yr	URF	=		(µg/m³)-1
K _d (non-ionizing organics)	=	see page 3	cm³/g or L/kg	Ut	=	11.32	kg/m³
K _d (ionizing organics)	=		cm ³ /g or L/kg	v	=		unitless
K _d (inorganics)	=		cm ³ /g or L/kg	VF	=		m ^{3/} kg

SSL Input Parameters 2 of 3

Incident #:	201409	63	Chemical:	Total Xylenes	Lan	d Use: _	Not Applicable
Symbol			Unit	Symbol			Unit
VF'	=		m³/kg	θ _w	=	0.18	L _{water} /L _{soil}
VF _{M-L}	=		m³/kg	Рь	=	2.15	kg/L or g/cm ³
VF' _{M-L}	=		m³/kg	$\rho_{\rm s}$	ě		g/cm ³
η	=		L _{pore} /L _{soil}	ρw	=	1	g/cm ³
θ_{a}	=	0.14	Lair/Lsoit	1/(2b+3)	=		unitless

Equation	Result	Unit(s)
S1	=	mg/kg
S2	É	mg/kg
S3	=	mg/kg
S4	=	mg/kg
S5	Ė	mg/kg
S6	Ē	mg/L
S7	E	mg/kg
S17	=	mg/kg
S28	(4)	mg/kg
S29	= See Box Below	mg/L

Henry's Law Constant (H'): (dimensionless)

Total Xylenes = 0.25

Solubility in Water (S): (mg/L)

Total Xylenes = 186

Organic Carbon Partition Coefficient (K_{oc}): (cm³/g)

Total Xylenes = 260

Soil-Water Partition Coefficient (K_d): Equation S19 (cm³/g)

Total Xylenes = 2.55

Solution to Equation S29: (mg/kg)

Total Xylenes = 607

> SSL Input Parameters 3 of 3

DERIVATION OF THE SOIL SATURATION LIMIT, Csat SSL Equations S19 and S29

Downtown 66

$$C_{sat} = \frac{S}{\rho_b} \bullet \left[\left(K_d \bullet \rho_b \right) + \theta_w + \left(H' \bullet \theta_a \right) \right]$$

SYMBOL	PARAMETER	UNITS	PARAMETE	R VALUES
S	Solubility in Water	mg/l	Total Xylenes	110
			Gravel	2.0
			Sand	1.8
ρ_b	Bulk Soil Density	g/cm ³	Silt	1.6
			Clay	1.7
			or Site-Specific	
K_d	Soil-Water Partition Coefficient	cm ³ /g	$K_d = K_c$	e foc
K _{oc}	Organic Carbon Partition Coefficient	cm ³ /g	Total Xylenes	398
f_{oc}	Fractional Organic Carbon	g/g	Site sp	ecific
			Gravel	0,20
	Water Filled Soil		Sand	0.18
θ_{w}	The state of the s	Dimensionless	Silt	0.16
	Porosity		Clay	0.17
			or Site-Specific	Equation S20
H'	Henry's Law Constant	Dimensionless	Total Xylenes	0.271
			Gravel	0.05
	Air Filled Soil		Sand	0.14
θ_z		Dimensionless	Silt	0.24
	Porosity		Clay	0.19
			or Site-Specific	Equation S21

INPUT PARAMETER VALUES/INTERMEDIATE VALUES

S=	110 mg/l	$K_d =$	5.41E+00 cm ³ /g
$\rho_b =$	2.15 g/cm ³	θ_{w} =	0.18 dimensionless
K _{oc} =	398 L/kg	H'=	0.271 dimensionless
f _{oc} =	13,600 mg/kg	$\theta_a =$	0.14 dimensionless
f _{or} =	0.0136 g/g		

 $C_{\text{sat}} = 606.56 \text{ mg/kg}$

Calculated Tier 2 C_{sat} = 607 mg/kg

Tier 1 Non-Exceedence Check (value of C_{sat} will change if Tier 2 C_{sat} is less than Tier 1 C_{sat}):

C _{sat} (Soil Comp of GW Ingestion) =	607 mg/kg
C _{sat} (Soil Outdoor Inhalation) =	607 mg/kg

TOTAL XYLENES

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

	IEMA Incident # (6- or 8-digit):	20140963	IEPA LPC # (10-digit):	1430650114
	Site Name: S & S Infinite Grou			
	Site Address (not a P.O. Box):	400 NE Adams Street		
	City: Peoria	County: Peoria	Zip Code: 6160	3
	Leaking UST Technical File			
3.	Tier 2 Calculation Informati	on		
	Equation(s) Used (ex: \$12-\$17	\$28): \$18 and \$28:	Soil Component of GW Inges	tion SROs

Contact Information for Individual Who Performed Calculations:

Joe Buhlig, Project Manager

Martin Environmental, Inc. (217) 736-7569-230

Marlin Environmental, Inc. (217) 726-7569 x30

Land Use: not applicable Soil Type: Sand

Groundwater: X Class I ☐ Class II

Mass Limit: ▼ Yes ► No If Yes, then Specify Acreage: ▼ 0.5 ► 1 ► 2 ► 5 ► 10 ► 30

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the Underground Storage Tank Fund.
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

Symbol			Unit	Symbol			Unit
AT (ingestion)	=		yr	da	=		m
AT (inhalation)	=		yr	ds	=	4.2672	m
AT _c	=	70	yr	D _A	=		cm²/s
BW	=		kg	Di	=		cm²/s
C _{sat}	=		mg/kg	D _w	=		cm²/s
C_w	=	see page 3	mg/L	DF	=	20	unitless
d	=		m	ED (ingestion of carcinogens)	=		yr

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2000			39139	Secretary and			22
Symbol			Unit	Symbol			Unit
ED (inhalation of carcinogens)	=		yr	K _{oc}	=		cm ³ /g or L/kg
ED (ingestion of noncarcinogens)	=		yr	Ks	=		m/yr
ED (inhalation of noncarcinogens)	=		yr	L.	=		m
ED (ingestion of groundwater)	=		yr	PEF	=		m³/kg
ED _{M-L}	=	70	уг	PEF'	=		m³/kg
EF	=		d/yr	Q/C (VF equations)	=		(g/m ² -s)/ (kg/m ³)
F(x)	=	0.194	unitless	Q/C (PEF equations)	=		(g/m ² -s)/ (kg/m ³)
foc	=		g/g	RfC	=		mg/m ³
GW _{obj}	=	see page 3	mg/L	RfD。	=		mg/(kg-d)
H	ē		unitless	S	=		mg/L
F	=		m/m	SF _o	=		(mg/kg-d) ⁻¹
Ĺ	=	0.3	m/yr	Т	=		s
I _{M-L}	=	0.18	m/yr	T _{M-L}	=	30	yr
IF _{soil-adj}	=	114	(mg-yr)/(kg-d)	THQ	=	1	unitless
IR _{soil}	=		mg/d	TR	=		unitless
IR _w	=		L/d	U _m	=	4.69	m/s
к	=		m/yr	URF	=		(µg/m³)-1
K _d (non-ionizing organics)	=		cm ³ /g or L/kg	Ut	=	11.32	kg/m³
K _d (ionizing organics)	=		cm ³ /g or L/kg	V	=		unitless
K _d (inorganics)	=		cm ³ /g or L/kg	VF	=		m³/kg

SSL Input Parameters 2 of 3

Incident #:	20140963	Chemical: BTE	X/Benzo (a) Anth
Symbol		Unit	Symbol
VF'	=	m³/kg	θ _w
VF _{M-L}	=	m³/kg	ρ _b
VF' _{M-L}	=	m³/kg	ρ₅
η	=	L _{pore} /L _{soil}	ρw
θ_a	=	Lair/Lsoil	1/(2b+3)

Symbol			Unit
θ_{w}	ê/		L _{water} /L _{soil}
ρ_{b}	=	2.15	kg/L or g/cm ³
ρ_s	=		g/cm ³
ρ _w	=	1	g/cm ³
1/(2b+3)	=		unitless

Land Use:

Not Applicable

Equation	Result	Unit(s)
S1	(=)	mg/kg
S2	(4)	mg/kg
S3		mg/kg
S4	=	mg/kg
S5	=	mg/kg
S6	=	mg/L
S7	=	mg/kg
S17	=	mg/kg
S28	= See Box to Right	mg/kg
S29	=	mg/L

Groundwater Cleanup Objectives (GWobj): (mg/L)

Benzene: 0.005 Toluene: 1.0 Ethylbenzene: 0.7 Total Xylenes: 10.0

Target Soil Leachate Concentrations (C_W): (mg/L)

Benzene: 0.1 Toluene: 20.0 Ethylbenzene: 14.0 Total Xylenes: 200.0

Solution to Equation S28: (mg/kg)

Benzene = 0.14 Toluene = 27.5 Ethylbenzene = 19.2 Total Xylenes = 275 Benzo (a) anthracene = 2.0

* = Tier 2 Soil Saturation Limit

SSL Input Parameters

Downtown 66 - Peoria

Remediation Objective =

 $(C_w \times I_{M-L} \times ED_{M-L}) / (\rho_b \times d_s)$

(milligrams per kilogram, mg/kg)

Target Soil Leachate Concentration C_w = (milligrams per kilogram, mg/kg)

DF x GWobi

Dilution Factor DF=

20

(unitless)

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr		Infiltration Rate for Eq S2	8	0.18
1	m/yr		Infiltration Rate		0.3
GW _{obj}	mg/L	Gi	round Water Remdediation O	pjective	0,005
			Class 1	Class II	
		Benzene	0.005	0,025	
d _s	m		Depth of Source		4.2672
ED _{M-L}	year		Exposure Duration for Eq S	528	70
ρb	kg/L		Dry Soil Bulk Density		2.15

MODEL CALCULATED OUTPUTS:

$C_w =$	0.1
C.W.	0.1.

 REFERENCE FOR INPUT PARAMETERS		
	ρb	
Gravel	2	
Sand	1.8	
Silt	1.6	
Clay	1.7	
or	site-specific	

Calculated Soil Remediation Objective:

Soil Remediation Objective = 0.13734 mg/kg

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective = Soil Remediation Objective =	0.14 mg/kg
Soil Remediation Objective =	140 µg/kg

Benzene

Downtown 66 - Peoria

Remediation Objective = (milligrams per kilogram, mg/kg) $(C_w \times I_{M-L} \times ED_{M-L}) / (\rho_b \times d_s)$

Target Soil Leachate Concentration C_w = (milligrams per kilogram, mg/kg)

DF x GWobj

Dilution Factor DF= (unitless) 20

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr		Infiltration Rate for Eq S28		0.18
1	т/уг		Infiltration Rate		0.3
GW _{obj}	mg/L		Ground Water Remdiation Obje	ective	1
			Class I	Class II	
		Toluene	1.	2.5	
d _s	m		Depth of Source		4.2672
ED _{M-L}	year		Exposure Duration for Eq S2	28	70
ρ_b	kg/L		Dry Soil Bulk Density		2.15

MODEL CALCULATED OUTPUTS:

C _w =	20
------------------	----

REFERENCE FOR INPUT PARAMETERS				
ρb				
Gravel	2			
Sand	1.8			
Silt	1.6			
Clay	1.7			
or	site-specific			

Calculated Soil Remediation Objective:

Carrette Control Treatment of Control	
Soil Remediation Objective =	27.46750 mg/kg

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective =	27.5 mg/kg
Soil Remediation Objective =	27,500 µg/kg

Toluene

Downtown 66 - Peoria

Remediation Objective = (milligrams per kilogram, mg/kg)

 $(C_w \times I_{M\text{-}L} \times ED_{M\text{-}L}) \, / \, (\rho_b \times d_s)$

Target Soil Leachate Concentration Cw = (milligrams per kilogram, mg/kg)

DF x GWobi

Dilution Factor DF= (unitless) 20

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr		Infiltration Rate for Eq S28	8	0.18
1	m/yr		Infiltration Rate		0.3
GW _{obj}	mg/L	Gr	round Water Remdiation Obje	ective	0.7
			Class I	Class II	
		Ethylbenzene	0.7	1	
d	m		Depth of Source		4.2672
ED _{M-L}	year		Exposure Duration for Eq S	28	70
ρ_b	Kg/L		Dry Soil Bulk Density		2.15

MODEL CALCULATED OUTPUTS:

C_w = 14

REFERENCE FO	R INPUT PARAMETERS	
	рb	
Gravel	2	
Sand	1.8	
Silt	1.6	
Clay	1.7	
or	site-specific	

Calculated Soil Remediation Objective:

Soil Remediation Objective =	19.22725 mg/kg

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective =	19.2 mg/kg
Soil Remediation Objective =	19,200 µg/kg

Ethylbenzene

Downtown 66 - Peoria

Remediation Objective = (milligrams per kilogram, mg/kg) $(C_w \times I_{M-L} \times ED_{M-L}) / (\rho_b \times d_s)$

Target Soil Leachate Concentration C_w =

DF x GWobi

(milligrams per kilogram, mg/kg)

20

Dilution Factor DF= (unitless)

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr		Infiltration Rate for Eq S2	8	0.18
1	m/yr		Infiltration Rate		0.3
GW _{obj}	mg/L		Ground Water Remdiation Ob	ective	10
- Y	- 1		Class I	Class II	
		Total Xylenes	10	10	
d,	m		Depth of Source		4.2672
ED _{M-L}	year		Exposure Duration for Eq 5	528	70
ρb	kg/L		Dry Soil Bulk Density		2.15

MODEL CALCULATED OUTPUTS:

200

REFERENCE FOR INP	UT PARAMETERS	
	pb	
Gravel	2	
Sand	1.8	
Silt	1.6	
Clay	1.7	
or site-spe	ecific	

Calculated Soil Remediation Objective:

Soil Remediation Objective = 274.67497 mg/kg

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective = 275 mg/kg

Tier 1 Non-Exceedence Check (value of SRO will change if Tier 2 SRO is more stringent than Tier 1 SRO):

Soil Remediation Objective = 275 mg/kg Soil Remediation Objective = 275,000 µg/kg

Total Xylenes

Downtown 66 - Peoria

Remediation Objective =

 $(C_w \times I_{M-L} \times ED_{M-L}) / (\rho_b \times d_s)$

(milligrams per kilogram, mg/kg)

(milligrams per kilogram, mg/kg)

Target Soil Leachate Concentration Cw =

DF x GWobi

Dilution Factor DF=

20

(unitless)

MODEL PARAMETERS INPUT:

Symbol	Unit		Parameter		Values
I _{M-L}	m/yr		Infiltration Rate for Eq S2	8	0.18
1	m/yr		Infiltration Rate		0.3
GW _{obj}	mg/L	Grou	and Water Remediation Obj	jective	0.00013
			Class 1	Class II	
		Benzo(a)anthracene	0.00013	0.00065	
d _s	m		Depth of Source		4.2672
ED_{M-L}	year	1	Exposure Duration for Eq S	28	70
Pb	kg/L		Dry Soil Bulk Density		2.15

MODEL CALCULATED OUTPUTS:

C_w = 0.0026

	REFERENCE FOR INPUT PARAMETERS ρb					
	Gravel	2				
	Sand	1.8				
	Silt	1.6				
	Clay	1.7				
	or site	specific				

Calculated Soil Remediation Objective:

Soil Remediation Objective = 0.00357 mg/kg

Tier 1 Non-Exceedence Check (value of SRO will change if Tier 2 SRO is less than Tier 1 SRO):

Soil Remediation Objective = 2.0 mg/kg
Soil Remediation Objective = 2,000 μg/kg

Class I Groundwater

Soil Remediation Objective = 8.0 mg/kg
Soil Remediation Objective = 8,000 μg/kg

Class II Groundwater

Benzo(a)anthracene

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (416 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

IEMA Incident # (6- or 8-digit):	20140963	3	IEPA LPC # (10-	digit): 14	130650114
Site Name: S & S Infinite Grou	p, Inc.				
Site Address (not a P.O. Box):	400 NE Ad	lams Street			
City: Peoria	County:	Peoria	Zip Code:	61603	
Leaking UST Technical File					

B. Tier 2 Calculation Information

Equation(s) Used (ex: S12, S17, S28): S6, S7 and S26/S27: Inhalation of Carcinogens SROs

Contact Information for Individual Who Performed Calculations: Joe Buhlig Project Manager,

Marlin Environmental, Inc. (217) 726-7569 x30

Land Use: Res., Ind./Com. & Const. Worker Soil Type: Sand

Groundwater: X Class I Class II

Mass Limit: X Yes No If Yes, then Specify Acreage: X 0.5 1 2 5 10 30

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the Underground Storage Tank Fund.
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

Symbol			Unit	Symbol			Unit
AT (ingestion)	=		yr	d _a	=		m
AT (inhalation)	=		уг	ds	=	4.2672	m
AT _c	=	70	yr	D _A	=		cm²/s
BW	=		kg	D _i	=		cm²/s
C _{sat}	=		mg/kg	D _w	=		cm²/s
C _w	=		mg/L	DF	=)		unitless
d	=		m	ED (ingestion of carcinogens)	=		yr

IL 532-2860 LPC 645 8/07 SSL Input Parameters 1 of 3

Incident #:	2014	0963	Chemical:	Benzene	La	nd Use: Res	., Ind./Com., CV
Symbol			Unit	Symbol			Unit
ED (inhalation of carcinogens)	=	see page 3	yr	K _{oc}	=		cm ³ /g or L/kg
ED (ingestion of noncarcinogens)	=		yr	Ks	н		m/yr
ED (inhalation of noncarcinogens)	=		yr	L	=		m
ED (ingestion of groundwater)	=		yr	PEF	=		m³/kg
ED _{M-L}	=	70	yr	PEF'	=		m³/kg
EF	=	see page 3	d/yr	Q/C (VF equations)	=	97.78	(g/m ² -s)/ (kg/m ³)
F(x)	=	0.194	unitless	Q/C (PEF equations)	=		(g/m ² -s)/ (kg/m ³)
foc	=		g/g	RfC	=		mg/m³
GW _{obj}	-		mg/L	RfD _o	=		mg/(kg-d)
H'	=		unitless	S	=		mg/L
i	=		m/m	SF _o	=		(mg/kg-d)-1
1	=	0.3	m/yr	Т	=		s
I _{M-L}	=	0.18	m/yr	T _{M-L}	Ξ	30	yr
IF _{soil-adj}	=	114	(mg-yr)/(kg-d)	THQ	=	1	unitless
IR _{soil}	=		mg/d	TR	=	0.000001	unitless
IR _w	=		L/d	U _m	=	4.69	m/s
К	=		m/yr	URF	=	see page 3	(µg/m³) ⁻¹
K _d (non-ionizing organics)	=		cm ³ /g or L/kg	Ut	=	11.32	kg/m³
K _d (ionizing organics)	=		cm ³ /g or L/kg	V	=		unitless
K _d (inorganics)	=		cm ³ /g or L/kg	VF	=		m³/kg

Incident #:	2014	0963	Chemical:	Benzene	Land	Use:	Res., Ind./Com., CW
Symbol			Unit	Symbol			Unit
VF'	=		m³/kg	θ _w	=		L _{water} /L _{soil}
VF _{M-L}	=	9,569.33	m³/kg	ρ _b	÷	2.15	kg/L or g/cm ³
VF' _{M-L}	=	956.93	m³/kg	ρ _s	=		g/cm ³
η	LB		L _{pore} /L _{soll}	ρ _w	=	1	g/cm ³
θ_a	=		Lair/Lsoil	1/(2b+3)	=		unitless

Equation	Result	Unit(s)
S1	=	mg/kg
S2	4	mg/kg
S3	=	mg/kg
S4	į.	mg/kg
S5	=	mg/kg
S6	= See Boxes Below	mg/L
S7	= See Box Below	mg/kg
S17	=	mg/kg
S28	=	mg/kg
S29	=	mg/L

Exposure Frequency (EF): (days/year)
Residential = 350
Industrial/Commercial = 250
Construction Worker = 30
Exposure Duration (ED):
(years)
Residential = 30
Industrial/Commercial = 25
Construction Worker = 1
Inhalation Unit Risk Factor (URF): [(ug/m ³)- ¹]

Benzene = 0.0000078

Solution to Equation S6: (mg/kg) Industrial/Commercial	Solution to Equation S7: (mg/kg) Construction Worker
Benzene = 5.3	Benzene = 110
	(mg/kg) Industrial/Commercial

SSL Input Parameters 3 of 3

EQUATIONS S6 AND S7 FOR INHALATION OF VOLATILE CONTAMINANTS IN SOIL (CARCINOGENS)

Downtown 66 Peoria, Illinois

Residential, Industrial Commercial Remediation Objectives for Carcinogenic Contaminants (mg/kg)

$$TR \bullet AT \bullet 365 \frac{d}{yr}$$

$$URF \bullet 1000 \frac{\mu g}{mg} \bullet EF \bullet ED \bullet \frac{1}{VF}$$

Construction Worker Remediation Objectives for Carcinogenic Contaminants (mg/kg)

$$TR \bullet AT \bullet 365 \frac{d}{yr}$$

$$URF \bullet 1000 \frac{\mu g}{mg} \bullet EF \bullet ED \bullet \frac{1}{VF}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
AT _c	AVERAGING TIME FOR CARCINOGENS	year	70
ED	EXPOSURE DURATION FOR INHALATION OF CARCINOGEN	year	RESIDENTIAL 30 INDUS COMM 23 CONST WREE 1
EF	EXPOSURE FREQUENCY	dyr	RESIDENTIAL 350 INDUS-COMM 250 CONST WRKR 30
TR	TARGET CANCER RISK	smittless:	RESIDENTIAL 10 ⁻⁸ INDUS-COMM 10 ⁻⁹ CONST WRKR 10 ⁻⁹
URF	INHALATION UNIT RISK FACTOR	$({}^{(M)}/{}_{m}{}^{r})^{-1}$	7.8×10 ⁶ bentance
VF _{ss-L}	VOLATILIZATION FACTOR	m³/kg	REFER TO BQ. \$26& \$27 WITHIN TACO

S26 - Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Residential. VF_M & Industrial Commercial (m³/kg)

$$F_{M-L} = \frac{Q}{C} \bullet \frac{\left[T_{M-L} \bullet \left(3.15 \bullet 10^7 \cdot \frac{s}{yr}\right)\right]}{\rho_+ \bullet d_+ \bullet 10^8 \cdot \frac{cm^8}{m^7}}$$

S27 - Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker

$$VF_{M-L}^{\gamma} = \frac{VF_{M-L}}{10}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
ds	DEPTH OF SOURCE	m	SITE SPECIFIC
Pb	DRY BULK DENSITY	g cm)	1.5, OR GRAVEL=2.0 SAND=1.8 SILT=1.6 CLAY=1.7, OR SITE SPECIFIC
QC	INVERSE OF THE MIDAY CONCENTRATION AT THE CENTRE OF A SQUARE SOURCE	(g.m ² -abiZem ³)	RESIDENTIAL 68.81 INDUS-COMM 85.81 CONST WRKR 85.81 OR 742 Appendix C, Table H- Q/C by Source Area
Tut	EXPOSURE INTERVAL	уг	3(1

INPUT PARAMETERS FOR VFM4. RES/INDUS/COM PROP

INPUT PARAMTERS FOR VF'M4. CONSTRUCTION WORKER

INPUT PARAMETER VALUES FOR CONSTRUCTION WORKERS

Source Area	0.5 Acre	Source Area	0.5 Acre
ds=	4/2672 m	ds=	4.2672 m
Pb=	2.15 kg/L	Pb=	2.15 kg/L
Q-C=	97.78 (g/m ² -s)/(kg/m ²) (Residential)	Q/C=	97.78 (g/m²-s)/(kg/m²)
Q/C=	97.78 (g/m ² -s)/(kg/m ³) (Industrial Commercial)	T _{M,L} =	30 уг.
T _{M.1.} =	.30 ут		
VFwi=	10071.64 m ³ /kg (Residential)	VF _{M-L} =	1007.16 m kg
VFM-1=	10071 64 m ³ /kg (Industrial/Commercial)		

INPUT PARAMETER VALUES RES/INDUS/COM PROP

AT-	70	year	AT	70 year
ED=	30	year (Residential)	ED=	1 year
ED=	25	year (Industrial Commercial)	EF=	30 d/yr
EF=	350	d/yr (Residential)	TR=	1,00E-06 unitless
EF=	250	d/yr (Industrial/Commercial)	URF	7.80E-06 (**();;)
TR=	1.00E-06	unitless	VF _{M-1} =	1007.16 m 'Ag
URF=	7.80E-06	(^{pd} / _m) ⁻¹		
F _{M-1} =	10071.64	m³/kg (Residential)		

Residential Inhaiation Remediation Objective (S6) =	3.14 mg/kg	Construction Worker Inhalation Remediation Objective (S7) =	109,97 mg/kg
Industrial/Commercial Inhalation Remediation Objective (S6) =	5.28 mg/kg		

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

10071.64 m3/kg (Industrial/Commercial)

Soil Remediation Objective (Residential Inhalation) =	3.1 mg/kg	3,100 µg/kg
Soil Remediation Objective (Industrial/Commercial Inhalation) =	5.3 mg/kg	5,300 µg/kg
Soil Remediation Objective (Construction Worker Inhalation) =	110 mg/kg	110,000 µg/kg

Parts-Per-Million Parts-Per-Billion

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/67 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a faise material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compilaince with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

A.	Site	Identification
	CILC	I WOLLENIA OR CLOT

Site Name: S & S Infinite Gro	oup, Inc.			
Site Address (not a P.O. Box): 400 NE Adam	s Street		
City: Peoria	County: Pe	eoria	Zip Code:	61603
Leaking UST Technical File				
Leaking Oo i Technical File				
Tier 2 Calculation Informa	ation			
Tier 2 Calculation Informa		5. S26 & S27: Inh	alation of Non	-Carcinogens SROs
Comment of the Commen	17, S28): <u>S4, S5</u>	Control Sales Street Service		-Carcinogens SROs Project Manager,
Tier 2 Calculation Informa	17, S28): <u>S4, S5</u> ual Who Perform	ed Calculations:		
Tier 2 Calculation Information(s) Used (ex: S12, Since Contact Information for Individual	17, S28): <u>S4, S5</u> ual Who Perform 17) 726-7569 x30	ed Calculations:	Joe Buhlig	

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the Underground Storage Tank Fund.
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

Symbol			Unit	Symbol			Unit
AT (ingestion)	Ė		yr	da	=		m
AT (inhalation)	=	see page 3	yr	ds	=	4.2672	m
AT _c	=	70	yr	D _A	=		cm ² /s
BW	=		kg	Di	5		cm²/s
C _{sat}	=		mg/kg	D _w	=		cm ² /s
C _w	=		mg/L	DF	=		unitless
d	=		m	ED (ingestion of carcinogens)	e		yr

IL 532-2860 LPC 645 8/07 SSL Input Parameters 1 of 3

Incident #:	2014	10963	Chemical:	TEX	La	nd Use:	R, I/C & CW
Symbol			Unit	Symbol			Unit
ED (inhalation of carcinogens)	=		yr	Koc	=		cm ³ /g or L/kg
ED (ingestion of noncarcinogens)	=		yr	Ks	=		m/yr
ED (inhalation of noncarcinogens)	=	see page 3	yr	L	=		m
ED (ingestion of groundwater)	=		yr	PEF	=		m³/kg
ED _{M-L}	=	70	yr	PEF'	=		m ³ /kg
EF	=	see page 3	d/yr	Q/C (VF equations)	=	97.78	(g/m²-s)/ (kg/m³)
F(x)	=	0.194	unitless	Q/C (PEF equations)	=		(g/m²-s)/ (kg/m³)
f_{oc}	=		g/g	RfC	=	see page 3	mg/m ³
GW_{obj}	=		mg/L	RfD。	=		mg/(kg-d)
H'	=		unitless	S	=		mg/L
i	=		m/m	SF _o	=		(mg/kg-d)-1
4	=	0.3	m/yr	Т	=		s
I _{M-L}	=	0.18	m/yr	T _{M-L}	=	30	yr
IF _{soil-adj}	#	114	(mg-yr)/(kg-d)	THQ	=	1	unitless
IR _{soil}	Ξ.		mg/d	TR	=		unitless
IR _w	=		L/d	U _m	=	4.69	m/s
к	=		m/yr	URF	=		(µg/m³)-1
K _d (non-ionizing organics)	=		cm³/g or L/kg	Ut	=	11.32	kg/m³
K _d (ionizing organics)	=		cm³/g or L/kg	v	=		unitless
K _d (inorganics)	=		cm³/g or L/kg	VF	=		m³/kg

SSL Input Parameters 2 of 3

Incident #:	2014	0963	Chemical:	TEX	Lan	d Use: _	R, I/C & CW
Symbol			Unit	Symbol			Unit
VF'	=		m³/kg	$\theta_{\rm w}$	=		L _{water} /L _{soil}
VF _{M-L}	=	9,569.33	m³/kg	ρ _b	=	2.15	kg/L or g/cm ³
VF' _{M-L}	=	956.93	m ^{3/} kg	ρs	=		g/cm ³
n	=		L_{pore}/L_{soil}	ρ _w	=	1	g/cm ³
θa	=		L_{air}/L_{soil}	1/(2b+3)	=		unitless

Equation	Result	Unit(s)
S1	=	mg/kg
S2	=	mg/kg
S3	Œ	mg/kg
S4	= See Boxes Below	mg/kg
S5	= See Box Below	mg/kg
S6	=	mg/L
S7	=	mg/kg
S17	(#	mg/kg
S28	= 1	mg/kg
S29	=	mg/L

Averaging Time	(AT):
(years)	

Residential = 30 Industrial/Commercial = 25 Construction Worker = 0.115

Exposure Frequency (EF): (days/year)

Residential = 350 Industrial/Commercial = 250 Construction Worker = 30

Exposure Duration (ED): (years)

Residential = 30 Industrial/Commercial = 25 Construction Worker = 1

Inhalation Reference Concentration (RfC): (mg/m³)

Toluene - chronic = 5.0
Toluene - subchronic = 5.0
Ethylbenzene - chronic = 1.0
Ethylbenzene - subchronic = 1.0
Total Xylenes - chronic = 0.1
Total Xylenes - subchronic = 0.4

Solution to Equation S4:	Solution to Equation S4:	Solution to Equation S5:	
(mg/kg)	(mg/kg)	(mg/kg)	
Residential	Industrial/Commercial	Construction Worker	
Toluene = 580*	Toluene = 580*	Toluene = 580*	
Ethylbenzene = 350*	Ethylbenzene = 350*	Ethylbenzene = 350*	
Total Xylenes = 607**	Total Xylenes = 607**	Total Xylenes = 564	
* = Soil Saturation Limit ** = Tier 2 Soil Saturation Limit	* = Soil Saturation Limit ** = Tier 1 SRO	* = Soil Saturation Limit	

SSL Input Parameters 3 of 3

EQUATIONS S4 AND S5 FOR INHALATION OF VOLATILE CONTAMINANTS IN SOIL (NONCARCINOGENS)

Downtown 66 Peoria, Illinois

Residential, Industrial/Commercial Remediation Objectives for Noncarcinogenic Contaminants (mg/kg)

$$\frac{THQ \bullet AT \bullet 365}{EF \bullet ED \bullet \left(\frac{1}{RfC} \bullet \frac{1}{VF}\right)}$$

Construction Worker Remediation Objectives for

$$\frac{THQ \bullet AT \bullet 365}{EF \bullet ED \bullet \left(\frac{1}{RfC} \bullet \frac{1}{VF}\right)}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
AT	AVERAGING TIME FOR NONCARCINOGENS	year	RESIDENTIAL 30 INDUS/COMM 25 CONST WRKR 0.115
ED	EXPOSURE DURATION FOR INHALATION OF NONCARCINOGEN	year	RESIDENTIAL 30 INDUS COMM 25 CONST WRKE 1
EF	EXPOSURE FREQUENCY	d/yr	RESIDENTIAL 350 INDUS/COMM 250 CONST WRKR 30
RfC	INHALATION REFERENCE CONCENTRATION	mg/m²	RESIDENTIAL 5.0 INDUS-COMM 5.0 CONST WRKR 5.0
THQ	TARGET HAZARD QUOTIENT	unitless	Û
VF _{M-L}	VOLATILIZATION FACTOR	m ³ /kg	REFER TO EQ. \$26& \$27 WITHIN TACO

S26 - Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Residential, VF_{M-L} Industrial/Commercial (m³/kg)

$$VF_{M-L} = \frac{Q}{C} \bullet \left[\frac{T_{M-L} \bullet \left(3.15 \bullet 10^7 \frac{s}{yr} \right)}{\rho_L \bullet d_s \bullet 10^6 \frac{cm^3}{m^5}} \right]$$

$$VF'_{M-L} = \frac{VF_{M-L}}{10}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
ds	DEPTH OF SOURCE	m m	SITE SPECIFIC
Pb	DRY BULK DENSITY	kg/L	1.5, OR GRAVEL=2.0 SAND=1 8 SILT=1/6 CLAY=1.7, OR SITE SPECIFIC
Q/C	INVERSE OF THE MEAN CONCENTRATION AT THE CENTER OF A SQUARE SOURCE	(g.m'-1)(kg.m')	RESIDENTIAL 68.81 INDUSCOMM 83.81 CONST WRKE 85.81 OR 742.Appendix C., Table H. Q/C by Source Area
T_{M-L}	EXPOSURE INTERVAL	yt	30

INPUT PARAMETERS FOR VFM1. RES/INDUS/COM PROP

INPUT PARAMTERS VF ML CONSTRUCTION WORKER

Source Area	0.5 Acre	Source Area	0.5 Acre
ds	4.2672 m	ds=	4.2672 m
Pb=	2,15 kg/L	Pb=	2.15 kg/L
Q/C=	97.78 (g/m ² -s)/(kg/m ³) (Residential)	Q/C=	97.78 (g/m²-s) (kg/m²)
Q/C=	97.78 (g/m ² -s)/(kg/m ³) (Industrial/Commercial)	T _{M-1} =	30.00 ут
T _{M-1} =	30.00 yr		
VFML=	10071.64 m ³ /kg (Residential)	VF' _{M-L} =	1007/16 m ³ /kg
VF	10071.64 m ³ /kn (Industrial/Commercial)		

INPUT PARAMETER VALUES RES/INDUS/COM PROP

INPUT PARAMETER VALUES FOR CONSTRUCTION WORKERS

AT-	30 year	AT=	0.115 year
ED=	30 year (Residential)	ED=	1 year
ED=	25 year (Industrial/Commercial)	EF=	30 d/yr
EF=	350 d/yr (Residential)	RfC=	5.0 mg/m
EF=	250 d/yr (Industrial/Commercial)	THQ	1 unitless
RfC=	5,0 mg/m ³	VF _{M4} -	1007.16 m ³ /kg
THQ	1 unitless		
VF _{M.C} =	10071.64 m ³ /kg (Residential)		
VF _{M-1} =	10071.64 m ³ /kg (Industrial/Commercial)		

Residential Inhalation Remediation Objective (54) =	52,516.4 mg/kg	Construction Worker Inhalation Remediation Objective (SS) =	7,046.0 mg/kg
Industrial/Commercial Inhalation	71 533 0 media		

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective (Residential Inhalation) =	580 mg/kg	580,000 μg/kg
Soil Remediation Objective (Industrial/Commercial Inhalation) =	580 mg/kg	580,000 µg/kg
Soil Remediation Objective (Construction Worker Inhalation) =	580 mg/kg	580,000 μg/kg

Parts-Per-Million Parts-Per-Billion

EQUATIONS S4 AND S5 FOR INHALATION OF VOLATILE CONTAMINANTS IN SOIL (NONCARCINOGENS)

Downtown 66 Peoria, Illinois

Rendential, Industrial Commercial Remediation Objectives for Noncarcinogenic Contaminants (mg/kg)

Construction Worker Remediation Objectives for Noncarcinogenic Contaminants (mg/kg)

$$\frac{THQ - 4T - 365}{EF - ED - \left[\begin{array}{c} 1 \\ RfC \end{array}\right] \cdot \frac{1}{VF}}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
AT	AVERAGING TIME FOR NONCARCINGGIANS	YEAR	RESIDENTIAL 30 INDUSCOMM 25 CONSTWERK 0.115
ED	EXPOSURE DURATION FOR INHALATION OF CARCINOGEN	YEAR	RESIDENTIAL 30 INDUSCOMM 25 CONST WIKE 1
EF	EXPOSURE FREQUENCY	DYR	RESIDENTIAL 350 ENDUS COMM 250 CONST WREE 30
RJC	INHALATION REFERENCE CONCENTRATION	мс м	RESIDENTIAL 1 INDUS-COMM 1 CONST WRKR 1
THQ	TARGET HAZARD QUOTIENT	UNITLESS	3
VF _{M-L}	VOCATILIZATION FACTOR	M ³ /RG	REFER TO BY \$24A \$27 WITHIN TACO

S26 - Mass-Limit Volatilization Factor for the Infialation Exposure Route - Residential, Industrial/Commercial (m³/kg)

$$VF_{M-L} = \frac{Q}{C} \bullet \left[\frac{T_{M-L} \bullet \left(3.15 \bullet 10^7 \frac{s}{yr} \right)}{\rho_h \bullet d_* \bullet 10^6 \frac{cm^3}{m^3}} \right]$$

S27 - Mass-Limit Volatilization Factor for the Inhabition Exposure Route - Construction Worker (m¹/kg)

$$VF'_{M-L} = \frac{VF_{M-L}}{10}$$

S	YMBOL.	PARAMETER	UNITS	PARAMETER VALUES	
	de	DEPTH OF SOURCE	m	SITE SPECIFIC	
	Pb	DRY BULK DENSITY	kg L	1.5, OR GRAVEL=20 SAND=1.8 SILT=1.5 CLAY=1.7, OR SITE SPECIFIC	
	Q/C	INVERSE OF THE MEAN CONCENTRATION AT THE CENTER OF A SQUARE SOURCE	(p.m ² -147kg/m ⁴)	RESIDENTIAL 68-81 INDUSCOMM 85-81 CONST WRKR 85-81 OR 742-Appendix C, Table H. Q-C by Source Area	
	T _{M-L}	EXPOSURE INTERVAL	yr.	30	

INPUT PARAMETERS FOR VFM-L RES/INDUS/COM PROP

INPUT PARAMTERS FOR CONSTRUCTION WORKER

Source Area	0.5 Acre	Source Area
ds=	4.2672 m	ds=
Pb=	2.15 kg/L	Ptr-
Q·C-	97.78 (g/m ² -s)/(kg/m ³) (Residential)	Q/C-
Q-C=	97.78 (g/m ² -s)/(kg/m ³) (Industrial/Commercial)	TM-L -
T _{M-L} =	30.00 yr	
VF _{M-1} =	10071 64 m'/kg (Residential)	VF'44.3=
VF _{M-1} =	10071 64 m ² /kg (Industrial/Commercial)	

INPUT PARAMETER VALUES RES/INDUS/COM PROP

INPUT PARAMETER VALUES FOR CONSTRUCTION WORKERS

0.5 Acre

1007_16 m /kg

2.15 kg/L 97.78 (gm/-)(kg/m)

AT-	30	year	AT-	0.115 year
ED-	30	year (Residential)	ED-	1 year
ED=	25	year (Industrial/Commercial)	EF=	30 d/yr
EF=	350	d/yr (Residential)	RfC=	1.0 mg/m
EF-	250	d/yr (Industrial/Commercial)	THQ	1 unitless
RfC=	1.0	ing/m²	VF _{M-1} =	1007 164 m kg
THO	1	unitless		
F _{M-L} =	10071.64	m ³ /kg (Residential)		
F _{54-L} =	10071.64	m /kg (Industrial/Commercial)		

Residential Inhalation Remediation Objective (S4) = 10,503.3 mg/kg		Construction Worker Inhalation Remediation Objective (S5) = 1,409.2	
politica (pr)	TOLOGO MAN AND	Inchestic (no)	The way

Industrial/Commercial Inhalation
Remediation Objective (S4) = 14,704.6 mg/kg

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective (Residential Inhalation) =	350 mg/kg	350,000 µg/kg
Soil Remediation Objective (Industrial/Commercial Inhalation) =	350 mg/kg	350,000 µg/kg
Soil Remediation Objective (Construction Worker Inhalation) =	350 mg/kg	350,000 µg/kg

Parts-Per-Million Parts-Per-Billion

ETHYLBENZENE

EQUATIONS S4 AND S5 FOR INHALATION OF VOLATILE CONTAMINANTS IN SOIL (NONCARCINOGENS)

Downtown 66 Peoria, Illinois

Residential, Industrial/Commercial Remediation Objectives for Noncarcinogenic Contaminants (mg/kg)

$$\frac{THQ \bullet AT \bullet 365}{EF \bullet ED \bullet \left(\frac{1}{RfC} \bullet \frac{1}{VF}\right)}$$

Construction Worker Remediation Objectives for Noncarcinogenic Contaminants (mg/kg)

$$\frac{THQ \bullet AT \bullet 365}{EF \bullet ED \bullet \left[\begin{array}{c} 1 \\ R/C \end{array} \bullet \begin{array}{c} 1 \\ VF \end{array}\right]}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
AT	AVERAGING TIME FOR NONCARCINGGENS	YEAR	RESIDENTIAL 30 INDUSCOMM 25 CONST WRKE 0.115
ED	EXPOSURE DURATION FOR INHALATION OF NONCARCINOTENS	YEAR	RESIDENTIAL 30 INDUSCOMM 25 CONST WIKE 1
EF	EXPOSURE PREQUENCY	DYR	RESIDENTIAL 350 INDUS/COMM 250 CONST WRKE 30
RfC	INITIALATION REFERENCE CONCENTRATION	MGM ³	RESIDENTIAL 0.1 INDESCOMM 0.1 CONST WRKE 0.4
THQ	TARGET HAZARD QUOTIENT	ONITLESS	.4
VF _{M-I}	VULATILIZATION FACTOR	M ³ /KG	REFER TO BO \$26& \$27 WITHIN TACO

S26 - Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Residential, Industrial/Commercial (m³/kg)

$$VF_{M-1} = \frac{Q}{C} \bullet \frac{\left[T_{M-1} \bullet \left(3.15 \bullet 10^{7} \frac{s}{yr}\right)\right]}{\rho_{1} \bullet d_{1} \bullet 10^{9} \frac{cm^{3}}{m^{3}}}$$

S27 - Mass-Limit Volatilization Factor for the Inhalation Exposure Route - Construction Worker (m³/kg)

$$VF'_{M-L} = \frac{VF_{M-L}}{10}$$

SYMBOL	PARAMETER	UNITS	PARAMETER VALUES
da	DEPTH OF SOURCE	m	SITE SPECIFIC
Pb	ISRY BULK DENSITY	igi	1.5, OR GRAVEL=Z.0 SAND=1.6 SILT=1.6 CLAY=1.7, OR SITE SPECIFIC
Q/C	DIVERSE OF THE MEAN CONCENTRATION AT THE CENTER OF A SQUARE SOURCE	(gm²-()(kgm²)	RESIDENTIAL 68.81 INDUSCOMM 85.81 CONST WRKE 85.81 OR 742 Appendix C, Table H Q-C by Source Area
T _{M-i}	EXPOSURE INTERVAL	yr	30

INPUT PARAMETERS FOR VFM-L RES/INDUS/COM PROP

INPUT PARAMTERS FOR CONSTRUCTION WORKER

Source Area	0.5 Acre	Source Area	0.5 Acre
ds~	4.2672 m	ds=	4.2672 m
Pb=	2.15 kg/L	Pb=	2.15 kg/L
Q/C=	97,78 (g/m ³ s)/(kg/m ³) (Residential)	Q/C=	97.78 (g/m ² -s)/(kg/m ³)
Q/C-	97.78 (g/m ² -s)/(kg/m ³) (Industrial/Commercial)	T _{M-1} =	30,00 yr
T _{M-L} =	30.00 yr		
VFM I	10071 64 m ³ /kg (Residential)	VF _{M-i} =	1007.16 m ³ /kg
VFw.=	10071.64 m /km) Industrial/Commercial)		

INPUT PARAMETER VALUES RES/INDUS/COM PROP

INPUT PARAMETER VALUES FOR CONSTRUCTION WORKERS

AT-	30	year (Residential)	AT-	0.115 year
AT=	25	year (Industrial/Commercial)	ED=	(year
ED-	30	year (Residential)	EF=	30 d/yr
ED-	25	year (Industrial/Commercial)	RfC=	0.4 mg/m ²
EF=	350	d'yr (Residential)	THQ	1 unitless
EF=	250	d/yr (Industrial/Commercial)	VF' _{M-1} =	1007 16 m kg
RfC-	0.1	mg'm		
THQ	- 1	unitless		
F161-	10071.64	m'/kg (Residential)		
/FM-1"	10071,64	m³/kg (Industrial/Commercial)		

1,050.3 mg/kg	Objective (S5) =	563.7 mg/kg
1,030.5 mg/kg	Joseph (33)	Such E May ng
	1,050.3 mg/kg	1,050.3 mg/kg Objective (S5) =

Industrial/Commercial Inhalation
Remediation Objective (S4) = 1,470.5 mg/kg

Soil Saturation Limit Exceedence Check (value of SRO will change if soil saturation limit is exceeded for chemical):

Soil Remediation Objective (Residential Inhalation) =	607 mg/kg	607,000 μg/kg
Soil Remediation Objective (Industrial/Commercial Inhalation) =	607 mg/kg	607,000 µg/kg
Soil Remediation Objective (Construction Worker Inhalation) =	564 mg/kg	564,000 μg/kg

Parts-Per-Million Parts-Per-Billion

TOTAL XYLENES

ATTACHMENT 2

General Information for the Budget and Billing Forms Office 1/2/2025

LPC#:	1430650114	County:	Peoria	
City: Pe	eorta	Site Name:	S & S Infinite Group, I	nc. (Downtown 66)
Site Add	ress: 400 NE Adams Street			-
IEMA Inc	cident No.: 20140963			_
IEMA No	otification Date: 08/19/2014	•		
Date this	form was prepared: 7/2/2015			
This for	m is being submitted as a (check one	, if applicable	o):	
	Budget Proposal	-		
	Budget Amendment (Budget amendm	ents must incli	ude only the costs over	the previous budget.)
_ _	Billing Package		•	
u	•	(a) all ramant/a)	decumenting the costs	. manus ada di
	Please provide the name(s) and date Name(s):			RECEIVED
	· ·	_		JUL 0 2 2015
	Date(s):	<u> </u>		
This pa	ckage is being submitted for the site			IEPA/BOL
_				
_	ckage is being submitted for the site			
_	ckage is being submitted for the site	activities indi		
_	ckage is being submitted for the site dm. Code 734: Early Action	activities indi		
_	ckage is being submitted for the site dm. Code 734: Early Action Free Product Removal after Early Act Site Investigation	activities indi	cated below:	IEPA/BOL
35 III. A	ckage is being submitted for the site dm. Code 734: Early Action Free Product Removal after Early Act Site Investigation	activities indi	cated below:	IEPA/BOL
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35 III. A	ckage is being submitted for the site dm. Code 734: Early Action Free Product Removal after Early Act Site Investigation	activities indi	cated below:	IEPA/BOL
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35 III. A	ckage is being submitted for the site dm. Code 734: Early Action Free Product Removal after Early Act Site Investigation	activities indi	cated below:	IEPA/BOL

IL 532 -2825 LPC 630 Rev. 1/2007

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: <u>S&S Infin</u>	ite Group, Inc			.	
Send in care of: Martin Enviror	mental,inc.				<u></u>
Address: 3935 Commerce Drh	/e			 	·····
City: St. Charles		State: tilin	ols	Zip: <u>60</u>	174
The payee is the: Owns	er⊠ Ope	rator 🔀	(Check on	ne or both.)	a sharen ad addessa
Signature of the owner or operate	or of the UST(s)	(required)			a change of address, print off a W-9 Form.
Number of petroleum USTs in ill parent or joint stock company of or joint stock company of the ow Fewer than 101:	the owner or operator	perator; and a			
Number of USTs at the site: 3 have been removed.) Number of incidents reported to	·		includes (JSTs presently at t	the site and USTs that
Incident Numbers assigned to ti	ne site due to re	deases from U	STB: 20	140983	
					
Please list all tanks that have ex	/er Deen located 	at the site an	o tanks th	et are presently loc	eated at the site.
Product Stored in UST	Size (galions)	Did UST a relea		Incident No.	Type of Release Tenk Leak / Overfill / Plping Leak
Diesel Fuel	6,000	Yes 🛛	No 🔲	20140963	Tank Leak
Unleaded Gasoline	10,000	Yes 🛛	No 🗌	20140963	Tank Leak
Unleaded Gasoline	10,000	Yes []	No 🛛		
		Yes [No 🛛		
		Yes 🗌	No 🛛	,	
		Yes 🗌	No 🛛		
		Yes 🗌	No 🔯	 	
		Yes 🗌	No 🛛	· · · · · · · · · · · · · · · · · · ·	
		Yes 🗌	No 🛛		

Add More Rows

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000070

Electronic Filing: Received, Clerk's Office 1/2/2025 **Budget Summary**

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action	
Orilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$.00	
Analytical Costs Form	\$	\$	\$	\$	\$.00	
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$.00	
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$.00	
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 1,215.00	
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 15,889.04	
Consultant's Materials Costs Form	\$	\$	\$	\$	\$.00	
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.					
Total	\$	*	\$	\$	\$ 17,104.04	

Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
<u>-</u>				,	
<u>-</u> .					.
					- · ·
	<u> </u>				

Total Concrete and Asphalt
Placement/Replacement Costs:

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantied, or Removed	Unit Cost (\$)	Total Cost (\$)	
			
		 	
, · = , ·			
			

Total Building Destruction or Dismantling and	-
Canopy Removal Costs:	

Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost (\$) per Foot	Total Cost
MW-1	HSA	20.00	12.15	\$243.00
MW-2	HSA	20.00	12.15	\$243.00
MW-3	HSA	20.00	12.15	\$243.00
MW-4	HSA	20.00	12.15	\$243.00
MW-6	HSA	20.00	12.15	\$243.00
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Total Monitoring Well Abandonment Costs:	\$1,215.00
	l

	0
Total Paving, Demolition, and Well Abandonment Costs:	\$1,216.00

Consulting Personnel Costs Form

Employee Nam	10	Personnel Title	Hours	Rate* (\$)	Total Cost	
Remediation Category		Task				
· · ·		T		T ;		
<u> </u>		Project Manager	12.00	109.34	\$1,312.08	
TACO 2 or 3	TACO Prep: Ti	er 2 Calculations, Soil Analysis				
		Project Manager	15.00	109.34	\$1,640.10	
CCAP	CA Ptan: Prepa	ration and Budget				
		Senior Project Manager	5.00	121.49	\$ 607.4 5	
CCAP	CA Ptan: Prepa	ration and Budget				
w		Senior Prof. Engineer	9.00	157.94	\$1,421.46	
CCAP	CA Technical D	Design, Data Interpretation, Evalua	tion/CAP Plan an	d Budget Review	& Certification	
		Senior Admin. Assistant	8.00	54.67	\$437.36	
CCAP	CAP Plan and I	Budget Production and submittal				
- ,		Senior Draftperson/CAD	6.00	72.88	\$437.28	
CCAP	CAP Plan Figur	e, Drafting and Printing				
· •		Engineer III	10.00	121.49	\$1,214.90	
TACO 2 or 3	TACO Prep: Co	entaminant Fate and Transport Mo	deling	·		
		Project Manager	9.00	109.34	\$984.06	
НАА	Obtain IDOT H	AA				
		Senior Project Manager	2.00	121.49	\$242.98	
CA-Pay	CA Pay: Billing	Package (CAP) - Management		······································		

Employee Nam	ctronic Filing: Received, Clerk Personner Titte	de Office 1	Rate* (\$)	Total Cost
Remediation Category	Tas	k		
	Senior Acct. Technician	18.00	66.81	\$1,202.5
CCAP	CA Pay: Billing Package (CAP) - Production			
··· ··	Senior Prof. Geologist	3.00	133.64	\$400.6
CA-Pay	CA Pay: Billing Package (CAP) - Review & Certif	y	-	
	Project Manager	19.00	109.34	\$2,077.4
CACR	CACR Preparation, Attachments			
	Senior Project Manager	5.00	121,49	\$607.
CACR	CACR Design, Technical Plan and Review	•		
	Senior Prof. Engineer	5.00	147.94	\$739.
CACR	CACR Plan and Budget Review & Certification			
· · · · · · · · · · · · · · · · · · ·	Senior Admin. Assistant	6.00	54.67	\$328.0
CACR	CACR Plan Production & Assembly			
	Senior Draftperson/CAD	3.00	72,88	\$218.6
CACR	CACR Plan Figure, Changes and Printing			
· · · · · · · · · · · · · · · · · · ·	Project Manager	4.00	109.34	\$437.:
CCA-Field	Coordination NFR Recording, Well Abandonmen	t, Closure		
<u>. </u>	Senior Project Manager	2.00	121,49	\$242.
CA-Pay	CACR & NFR Billing Package - Management		1	V

Employee Name	tronic Filir	g: Received Clerk's Personnel Title	Hours 1/	Rate* (\$)	Total Cost				
Remediation Category	Task								
				r ·					
	· 	Senior Acct. Technician	14.00	66.81	\$935.34				
CA-Pay	CACR & NFR B	IIIIng Package - Production							
	,	Senior Prof. Geologist	3.00	133.64	\$400.92				
CA-Pay	CACR & NFR B	Illing Package - Review and Certific	ation						
		<u></u>		<u> </u>	-				
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*Refer to the applicable Maximum	Payment Amou	ints document.							

\$15,889.04

Owner/Operator and Licensed Professional Engineer/Geologist Budget

Certification Form	
I hereby certify that I intend to seek payment from the UST Fund for costs incurred while perform activities for Leaking UST incident 20140963. I further certify that this budget are for necessary activities and are reasonable and accurate to the best of my knot also certify that the costs included in this budget are not for corrective action in excess of the of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Ana Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that of payment from the Fund pursuant to 35 Ill. Adm. Code 732.608 or 734.630 are not included in amendment. Such ineligible costs include but are not limited to:	t the costs set forth in twiedge and belief. I minimum requirements action plan, and no alysis amounts, and costs ineligible for
Costs associated with ineligible tanks.	
Costs associated with site restoration (e.g., pump islands, canopies). Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).	
Costs incurred prior to IEMA notification.	
Costs associated with planned tank pulls.	RECEIV
Legal fees or costs.	0 0 20
Costs incurred prior to July 28, 1989.	JUL 0 2 20
Costs associated with installation of new USTs or the repair of existing USTs.	

/ED

IEPA/BOL

Owner/Operator: S & S Infinite Group, Inc. (Downtown 66)	
Authorized Representative: Syed Muneeb	Title: Owner
Signature:	Date: 4/30/15
Subscribed and swom to before me the day of	Lone , 2015 .
	Seal: D. Edgl Earton
(Notary Public)	OFFICIAL SEAL Nouzy Public - Saxte of Emole My Commission Expires December 08, 2017
In addition, I certify under penalty of law that all activities that conducted under my supervision or were conducted under the	are the subject of this plan, budget, or report were supervision of another Licensed Professional Engineer
or Licensed Professional Geologist and reviewed by me; that is prepared under my supervision; that, to the best of my knowled	dge and belief, the work described in the plan, budget,
or report has been completed in accordance with the Environm 732 or 734, and generally accepted standards and practices of accurate and complete. I am aware there are significant pena	of my profession; and that the information presented is
to the Illinois EPA, including but not limited to fines, imprisonmental Protection Act [415 ILCS 5/44 and 57.17].	nent, or both as provided by Sections 44 and 57-17 of the
	L.P.E./L.P.G. Seal: PROFESIONAL PROFESIONA
L.P.E./L.P.G.: Jeff Wienhoff	Date: 22/47 INO Supplied
L.P.E./L.P.G. Signature:	Date: State All Manufacture Control of the Control
Subscribed and swom to before me the	D. EOGLESTON
Motor Quality	Seal: OFFICIAL SEAL Notary Public - State of Unincis My Commission Explase December 08, 8017
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The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Office of the Illinois

State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7014 1820 0001 3147 8483

December 5, 2014

S and S Infinite Group, Inc. 400 North East Adams Street Peoria, IL 61603

In Re:

Facility No. 3-010480

IEMA Incident No. 14-0963

Downtown 66

400 North East Adams Street

Peoria, Peoria Co., IL.

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on October 17, 2014 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$5,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 6,000 gallon Diesel Fuel Tank 2 10,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

- 1. Neither the owner nor the operator is the United States Government,
- 2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
- 3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

- The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
- 5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
- The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.
- The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.504(b)).

For information regarding the filing of an appeal, please contact:

Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 10,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,

Deanne Lock

Administrative Assistant

Division of Petroleum and Chemical Safety

cc:

IEPA

Marlin Environmental

LEAKING UST TECHNICAL REVIEW NOTES

Re: LPC #1430650114 -- Peoria County Reviewed by: Scott McGill

Date Reviewed: July 15, 2015 Peoria/S & S Infinite Group, Inc.

400 NE Adams Street

EN-INSTRUCTEDADS HAWEELT Leaking UST Incident No. 20140963

Leaking UST Technical File

Document(s) Reviewed:

 Δ

This document consists of a corrective action plan and budget dated July 2, 2015 and received the Agency on July 2, 2015 and prepared by Martin Francisco the Agency on July 2, 2015 and prepared by Marlin Environmental, Inc. This plan and budget were prepared in accordance with the 734 requirements and summarized as follows:

General Site Information:

Site subject to: 734

JUL 3 0 2015

IEMA date(s): August 19, 2014	Payment from the Fund? (Y/N/unknown): yes	
UST system removed? (Y/N): yes	OSFM Fac. ID #: 20140963	
Encountered groundwater? (Y/N/unknown): no	SWAP mapping and evaluation completion date: July 15, 2015	
Free product? (Y/N/unknown): no	Site placement correct in SWAP? (Y/N): yes	
Current/past land use: gas station	MTBE > 40 ppb in groundwater? (Y/N/unknown): no	
Size & product of USTs: 1-6,000 gallon diesel	fuel and 1-10,000 gallon gasoline tank.	
Is site located in EJ area? no Is investigation of indoor inhalati route required? No		

Corrective Action Plan/Budget Review Notes:

The owner and operator submitted a corrective action plan consisting of a Tier 2 evaluation and institutional controls. The owner and operator propose a highway authority agreement for Spaulding Avenue, ELUC agreement, on-site groundwater use restriction and an industrial/commercial land use restriction. The proposed institutional controls are depicted in Figure 2. It should be noted that groundwater was not encountered at this site during early action activities and a groundwater investigation was not completed at the site. However, a Tier 2 modeling evaluation was completed to determine a leaching threat in the groundwater using equation S28. The modeled extent of contamination is depicted in Figure 1. The model calculations are included in Attachment 1.

The corrective action plan budget is included in Attachment 2. The budget is in the amount of \$17,104.04. This amount includes costs for abandonment of 5 existing monitoring wells, personnel costs for preparing the corrective action plan and budget, corrective action completion report and billing package.

Page 2

Illinois EPA Decision:

The proposed corrective action plan and budget consisting of a Tier 2 evaluation and institutional controls should be approved. The owner and operator should submit a corrective action completion report summarizing the results of the plan and request closure.

Response Due:

The owner and operator should submit a corrective action completion report.



FIETINOIS ENVIRONMENTAL'S PRIOT ECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829

BRUCE RAUNER, GOVERNOR

LISA BONNETT, DIRECTOR

217/524-3300

CERTIFIED MAIL

-JUL 2.1.2015

7013 2630 0001 4705 7907

S & S Infinite Group, Inc. Attn: Syed Muneeb 400 NE Adams Street Peoria, IL 61603

Re:

LPC #1430650114 -- Peoria County

Peoria/S & S Infinite Group, Inc.

400 NE Adams Street

Leaking UST Incident No. 20140963

Leaking UST Technical File

TEPA-DIVISION OF RECORDS MANAGEMENT RELEASABLE

SEP 16 2015

REVIEWER: JKS

Dear Syed Muneeb:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated July 2, 2015, was received by the Illinois EPA on July 2, 2015. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the total budget is approved for the amounts listed in Attachment A. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:

Page 1

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

If you have any questions or need further assistance, please contact Scott McGill at (217) 524-5137.

Sincerely

Michael T. Lowder

Unit Manager

Leaking Underground Storage Tank Section

Division of Remediation Management

Bureau of Land

Attachment: Attachment A

cc:

Marlin Environmental, Inc.

BOL File

Attachment A

Re: LPC #1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc.

400 NE Adams Street

Leaking UST Incident No. 20140963

Leaking UST Technical File

SECTION 1

The following amounts are approved:

\$0.00	Drilling and Monitoring Well Costs	
\$0.00	Analytical Costs	
\$0.00	Remediation and Disposal-Costs	
\$0.00	UST Removal and Abandonment Costs	
\$1,215.00	Paving, Demolition, and Well Abandonment Costs	
\$15,889.04	Consulting Personnel Costs	
\$0.00	Consultant's Materials Costs	

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act and 35 Illinois Administrative Code 734.635.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276

C)

CHOLDING CO.



ME 123

NIXIE

600 DE 1009

0008/11/15

RETURN TO SENDER UNCLAIMED UNABLE TO FORWARD

E160334202,0008 24

C: 52794927575 *0561-05278-21-44



Hazardous Materials Incident

Report 1430650114-



Incident #: H-2016-1089

SaSInfinite Group In

Entered By: Kirgan, Ken (IEMA) on 2016-11-21 14:51:49

Data Input Status: Closed

Leaking Underground Yes Storage Tank (LUST):

Leaking	UST TechFil	÷

Caller:	Matt Rives		EPA-DAVISION OF RECORDS MAKAGE
Call Back #:	217/851-1404		RELEAGE
Caller Represents:	CW3M Company		NFC 19 2016
Hazmat Incident Type:	Leak or spill		5 •
	INCIDEN	T LOCATION	REVIEWER RD
Incident Location:	400 NE Adams St		
County:	Peoria 6 6 5	City:	Peoria
Primary IEMA Region:	6	Secondary IEMA Region:	Not Applicable
Full Address:	400 NE Adams St, Peoria, IL		
Latitude:	40.694349	Longitude:	-89.585542
Milepost:	N/A	Sec:	N/A
Twp.:	N/A	Range:	N/A
Area Involved:	Fixed Facility		
Media or medium into which the release occurred:	Ground		
	WEATHER	INFORMATION	
Temp (deg F):	n/a	Wind Dir/Speed m.p.h: n/a	

Temp (deg F):	n/a Wind Dir/Speed m.p.h: n/a						
	MATERIA	LS INVOLVED					
Material Name:	gasoline, diesel and used oil Material Type: Liquid						
CHRIS Code:	Unknown	CAS #:	Unknown				
UN/NA #:	Unknown						
Is this a 302(a) Extremely Hazardous Substance?	Unknown						
Is this a RCRA Hazardous Waste?	Unknown		·				
Is this a RCRA regulated facility?	Unknown						
Container Type:	Under ground storage tank	Container Size:	see narrative				
Amount Released:	unknown	unknown Rate of Release/min: unknown					
Duration of Release:	unknown	•					
Cause of Release:	unknown						
Estimated Spill Extent:	Unknown	Spill Extent Units:					

Date/Time Occured:	(Date/Time Unknown)				
Date/Time Discovered:	2016-11-21 14:30		* \		
Maranhan Iniumada					
Number Injured:	U	Where Taken:	none		
Number Killed:	0	# Evacuated:	0		
On Scene Contact:	Matt Rives	On Scene Phone #:	217/851-1404		
Proper safety precautions to none	take as a result of the release, inclu	ding evacuation:			
Assistance needed from State	te Agencies:				
Containment/Cleanup action caller is with the hired contra	s and plans: octor, tanks will probably be remove	ed.	·		

Responsible Party:	S&S Infiniti Group Inc
Contact Person:	Syed Munbed
Callback Phone Number:	309/453-2280
Facility Manager:	Syed Munbed
Facility Manager Phone #:	309/453-2280
Street Address:	400 NE Adams St
City:	Peoria State: IL Zip Code: 61603

Emergency Units Contacted	Contacted	On Scene	Agencies Contacted
ESDA			none
Fire			none
Police	7.2.		none
Sheriff			none
Other			none

AGENCIES OR PERSONS NOTIFIED				
Agency	Notification Action			
IEPA, NRTP, OSFM 2016-11-21 14:55		emailed	Report Sent	
IEMA Region 6	2016-11-21 14:55	emailed	Report Sent	

Narrative:

Container sizes: gasoline: 1-10,000 gallons, 2-2,000 gallons diesel: 1-2,000 gallons

used oil: 1-2,000 gallons

Attachments:

Follow-Up Information:			-
	•		



ILEIROPSIERIVIA BAMIENTALIPA OFFECTION PAGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, ACTING DIRECTOR

217/524-3300

December 9, 2016

S & S Infinite Group, Inc Attn: Syed Munbed 400 NE Adams Street Peoria, IL 61603

Re: LPC #1430650114 -- Peoria County

Peoria/S & S Infinite Group, Inc

400 NE Adams Street

Leaking UST Incident No. 20161089

Leaking UST Technical File

EPA-DYDONO OF RECONDS HANAGEMENT
RELEASABLE
2.2016

DEC 1 3 2016

REVIEWER JRM

Dear UST Owner or Operator:

The Illinois Environmental Protection Agency (Illinois EPA) received notification from the Illinois Emergency Management Agency that a release from an underground storage tank system(s) has occurred at the above-referenced site. As a result of this release, the owner or operator of the underground storage tank(s) is required to comply with the Leaking Underground Storage Tank (Leaking UST) Program requirements, including the submittal of applicable documentation on forms prescribed and provided by the Illinois EPA.

To obtain copies of the forms, as well as additional information regarding the Illinois EPA's Leaking UST Program, please visit our Web page at http://www.epa.state.il.us/land/lust/index.html.

- 1. The direct link to the technical forms page is http://www.epa.state.il.us/land/lust/forms/technical-forms/index.html.
- 2. If you intend to seek reimbursement from the Illinois Underground Storage Tank Fund for costs incurred, the direct link to the budget and reimbursement forms page is: http://www.epa.state.il.us/land/lust/forms/budget-forms/index.html.

If you do not have access to the Internet and/or have questions about the Leaking UST Program requirements, please contact the Leaking UST Program project manager on call at 217/524-3300. Sincerely,

Gregory W. Dunn, Manager

Leaking Underground Storage Tank Section

Division of Remediation Management

Bureau of Land

GWD: JW\

c: BOL File

4302 N. Main St., Rockford, IL 61103 (815) 987-77 60 595 S. State, Eigin, IL 60123 (847) 608-3131 2125 S. First St., Champaign, IL 61820 (217) 278-5800 2009 Mail St., Callinsville, IL 62234 (618) 346-5120

9511 Harrison St., Das Plaines, IL 6001 6 (847) 294-4000 412 SW Washington St., Suite D, Peorta, IL 61 602 (309) 671-3022 2309 W. Main St., Suite 116, Marlon, IL 62959 (618) 993-7200 100 W. Randolph, Suite 10-300, Chicago, IL 60601

000088

1430650114 - Peoria County S & S Infinite Group, Inc.

Leaking UST Technical File

Incident # 20161089

Phone: (217) 522-8001 Fax: (217) 522-8009

Environmental Consulting Services

March 19, 2018

Mr. Scott McGill, Project Manager LUST Section, Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Avenue East Springfield, IL 62794-9276

RE:

LPC #1430650114—Peoria County S & S Infinite Group, Inc. - Peoria **400 North East Adams Street** Incident Number: 2016-1089

LUST Technical Reports—Corrective Action Plan

Dear Mr. McGill:

Enclosed, please find the Corrective Action Plan (CAP) for the above-referenced site for Incident Number 2016-1089. This CAP includes the actions necessary to address the contamination from the 2016-1089 incident that were not included in the CAP previously approved for the 2014-0963 incident. Once the activities required to address the contamination over Tier 2 Clean-up Objectives found in the 2016-1089 incident are completed, a Corrective Action Completion Report combining the incidents will be prepared and submitted.

If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely

Carol Rowe, P.G.

Senior Environmental Geologist

RECEIVED

MAR 2 0 2018

IEPA/BOL

xc:

Mr. Syed Muneeb, S & S Infinite Group, Inc. / Downtown 66 Mr. William T. Sinnott, CWM Company, Inc.

701 W. South Grand Avenue Springfield, IL 62704 (217) 522-8001

400 West Jackson, Suite C Marion, IL 62959 (618) 997-2238

CORRECTIVE ACTION PLAN & BUDGET

S&S INFINITE GROUP, INC./ DBA-DOWNTOWN 66

PEORIA, ILLINOIS
LPC #1430560114 — Peoria County
Incident Number 2016-1089

RECEIVED

MAR 2 0 2018

IEPA/BOL

Submitted to:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Leaking Underground Storage Tank Section, Bureau of Land 1021 North Grand Avenue East Springfield, Illinois 62794-9276

Prepared by: CW³M COMPANY, INC.

701 South Grand Avenue West Springfield, Illinois (217) 522-8001 400 West Jackson, Suite C Marion, Illinois (618) 997-2238

March 2018

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

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Electronic Filing: Received, Clerk's Office 1/2/2025 CWM Company, Inc.

CWM Company, Inc.
Corrective Action Plan
S&S Infinite Group, Inc.
LPC #1430560114 Incident Number 2016-1089

TABLES

Table 1-1.	Underground Storage Tank Summary	3
	Soil Remediation Objectives	
	Water Supply Well Information	

ACRONYMS AND ABBREVIATIONS

BETX	Benzene, ethylbenzene, toluene, total xylenes
CACR	Corrective Action Completion Report
CAP	Corrective Action Plan
Csat	Soil saturation limit
CUO	Clean-up Objective
CW^3M	CW ³ M Company, Inc.
CWS	Community Water Supply
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
Ill. Adm. Code	Illinois Administrative Code
ISGS	Illinois State Geological Survey
ISWS	Illinois State Water Survey
LUST	Leaking Underground Storage Tank
MTBE	Methyl tert-butyl ether
OSFM	Illinois Office of the State Fire Marshal
PNA	Polynuclear Aromatic Hydrocarbon
SICR	Site Investigation Completion Report
SWAP	Source Water Assessment Program
TACO	Tiered Approach to Corrective Action Objectives
UST	Underground Storage Tank
	-

CW⁸M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

1. SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

This proposed Corrective Action Plan (CAP) and Budget has been prepared in accordance with the requirements of the 35 Illinois Administrative Code (Ill. Adm. Code) 734. The Illinois Environmental Protection Agency (IEPA) Corrective Action Plan Form is included in this document as Appendix A.

Mr. Syed Muneeb, owner of the underground storage tanks (USTs) at the site, known as S&S Infinite Group, in Peoria, Illinois reported a release to the Illinois Emergency Management Agency (IEMA). Incident Number 2016-1089 was assigned to the notification on November 21, 2016. Mr. Syed Muneeb ultimately requested CW³M Company, Inc. (CW³M) to proceed with the reporting and early action requirements in accordance with 35 Ill. Adm. Code § 734.

The 20-Day Certification was submitted to the IEPA on December 2, 2016 (CW³M, 2016). A 45-Day Extension Request was submitted to the IEPA on December 20, 2016 (CW³M, 2016a) and was approved on December 28, 2016 (IEPA, 2016). A 45-Day Report was submitted to the IEPA on January 19, 2017 (CW³M, 2017) and was approved on January 26, 2017 (IEPA, 2017). A 45-Day Report Addendum was then submitted to the IEPA on February 10, 2017 (CW³M, 2017a) and was approved on May 17, 2017 (IEPA, 2017a). A Site Investigation Completion Report (SICR) was submitted to the IEPA on October 10, 2017 (CW³M, 2017b) and was approved February 2, 2018 (IEPA, 2018). A previous incident had occurred on site, 2014-0963, and had a CAP to address the contamination from its incident was submitted July 2, 2015 (Marlin, 2015), and approved on July 21, 2015 (IEPA, 2015). The CAP proposed to use a groundwater use restriction, a Highway Authority Agreement to address potential contamination beneath Spaulding Avenue, and to place a Tier 2 Industrial/Commercial restriction on site.

This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation was performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as S & S Infinite Group, Inc. / DBA – Downtown 66 is located at 400 North East Adams Street, Peoria, Peoria County, Illinois 61603. The site is located in the NE ¼ of the NE ¼ of Section 9, Township 8 North of the Centralia Baseline and Range 8 East of the Fourth Principal Meridian.

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

1.3 UNDERGROUND STORAGE TANK INFORMATION

A permit for the removal of seven USTs was approved by the Office of the State Fire Marshal (OSFM) on December 12, 2016 (OSFM, 2016). Tank removal activities were conducted by CW³M personnel on January 3, 2017 through January 5, 2017. OSFM Tank Specialist Jim Coffey was on site to oversee the removal of the USTs.

CW³M personnel were on site from January 4, 2017 through January 6, 2017, and January 9, 2017 through January 12, 2017 to complete early action activities, including removal of contaminated backfill material and replacement of clean fill to the UST excavation area. As the OSFM Field Specialists have been instructed not to make the official determination of the release in the field, the source of release has been determined in consult with the OSFM Field Specialist using the best professional judgment of the condition of tank, piping, and soil conditions.

- Tank 1: This fiberglass UST was abandoned in place in 2014 as part of a separate incident. Its details are listed on the next page in Table 1-1.
- Tank 2: This fiberglass UST was abandoned in place in 2014 as part of a separate incident. Its details are listed on the next page in Table 1-1.
- Tank 3: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this fiberglass UST was a result of piping leaks and overfilling.
- Tank 4: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank had visual holes.
- Tank 5: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank had visual holes.
- Tank 6: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank showed signs of pitting.
- Tank 7: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank showed signs of pitting.

CW¹M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

Table 1-1. Underground Storage Tank Summary

Tank Number	Tank Volume (gallons)	Tank Contents	Incident Number	Release Information	Current Status
1	6,000	Diesel	2014-0963	Unknown	Removed 1/5/17
2	10,000	Gasoline	2014-0963	Unknown	Removed 1/5/17
3	10,000	Gasoline	2016-1089	Overfilling/Piping Leaks	Removed 1/4/17
4	350	Gasoline	2016-1089	Tank Leaks	Removed . 1/3/17
5	350	Gasoline	2016-1089	Tank Leaks	Removed 1/3/17
6	560	Diesel	2016-1089	Tank Leaks	Removed 1/3/17
7	560	Used Oil	2016-1089	Tank Leaks	Removed 1/3/17

1.4 EARLY ACTION SUMMARY

Samples were collected for every 20 feet of the excavation walls. Floor samples were obtained at the base of the tanks at a depth of around 12 feet. Samples for the piping trench of tank 3 were also taken every 20 feet at a depth of approximately 3 feet. Because tanks 1 and 2 were previously associated with Incident Number 2014-0963, the soil in the tank pit containing tanks 1, 2, and 3 was known to be contaminated. For this reason, the only samples taken from this pit were at the floor of tank 3 as well as the surrounding walls. The soil removed during the excavation of these three tanks was returned to the excavation after sampling had been completed.

All early action soil samples were collected and analyzed for benzene, ethylbenzene, toluene and total xylenes (BETX) and methyl tert-butyl ether (MTBE) contaminants. The wall samples and floor samples associated with tanks 4 through 7 were additionally analyzed for Polynuclear Aromatic Hydrocarbon (PNA) contaminants, due to the contents of the tanks. The floor of the used oil tank 7 was also sampled for used oil parameters. As previously stated, all tanks and product piping were removed. A total of 365.72 tons (243.81 cubic yards) of contaminated backfill was removed and taken to Indian Creek Landfill in Hopedale, Illinois for disposal. Analytical results and a map of the contaminants can be found in

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

Appendix F and Appendix B, respectively. These activities were documented in the 45-Day Report (CW³M, 2017) and the 45-Day Report Addendum (CW³M, 2017a).

1.5 SITE INVESTIGATION SUMMARY

On July 26, 2017 CW³M personnel were on site to conduct Stage 1 investigation activities. Two soil borings (24 and 25) were drilled and sampled, with boring 24 to a depth of 25 feet and boring 25 to a depth of 20 feet. Soil boring 24 was intended to be converted to a monitoring well to determine if contaminants from sample 11 had been in contact with groundwater. When no water was reached by 25 feet only soil samples were obtained. Since a groundwater investigation could not be performed, SB-24 was advanced to define the vertical extent of soil contamination. Once the groundwater level was determined to be lower than 25 feet, no more wells were attempted. Soil boring 25 was drilled to determine the horizontal extent of contamination from sample 11. Benzo(a) pyrene was exceeded at sample 24 but below Clean-up Objectives (CUOs) at sample 25A and B.

One reason for the large change in groundwater level elevation from this incident, below 25 feet, and the previous incident, at around 13 feet, could be due to the site's location and unusually dry summer. The site is very near the Illinois River which could have huge changes in the groundwater level from changes in the river. Soil samples were analyzed for BETX, MTBE, and PNA indicator parameters. Laboratory analytical results and a table summarizing the results are included in Appendix F, while soil boring logs are included in Appendix E. At the end of Stage 1 investigation, the soil plume was fully defined on site and groundwater was not encountered. The site investigation activities were documented in the SICR (CW³M, 2017b).

2. REMEDIATION OBJECTIVES

2.1 DETERMINATION OF CLEAN-UP OBJECTIVES

In accordance with 35 Ill. Adm. Code 734.410, remediation objectives will be determined in accordance with 35 Ill. Adm. Code § 742. During the previous incident on this site #2014-0963 a Tiered Approach to Corrective Action Objectives (TACO) sample was taken as part of the CAP for that incident. For this incident the site specific physical parameters that were presented in the CAP for incident 2014-0963 (Marlin, 2015) are being used for incident 2016-1089.

The parameters that have been determined are:

Soil bulk density (r_b), 2.15 g/cm³

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

> Soil particle density (r_s) 2.69 g/cm³ Moisture content (w), 9.4% Organic carbon content (f_{oc}) .0136 g/g Hydraulic Conductivity 8.64 cm/day = 1.00 X 10⁻⁴ cm/sec

For the previous incident groundwater was encountered during drilling but never encountered after drilling. For the 2016-1089 incident, groundwater was not encountered. Since no groundwater was found, the assumed hydraulic gradient is 0.02.

2.2 SOIL AND GROUNDWATER OBJECTIVES

The soil objectives are listed for the site below in tabular format. With the TACO Tier 2 CUOs calculated, a groundwater use restriction and an industrial / commercial use restriction will be placed on the property. The calculations and the modeling of the existing contamination from incident 2016-1089 are included in Appendix G. The TACO inputs for plume width and length are shown on Drawing 0007 in Appendix B.

Table 2-1. Soil Remediation Objectives

Parameter	TACO	TACO
	Residential	Industrial /
	Tier 1	Commercial
	Clean-up	Tier 2
	Objective	Clean-up
	(mg/kg)	Objective
221 221 222		(mg/kg)
Benzene	0.03	3.70
Ethylbenzene	13.0	749.91
Toluene	12.0	535.89
Total Xylenes	5.6	73.45
Methyl tert-butyl ether	0.32	249.86
Acenaphthene	570	•
Acenphthylene	30	
Anthracene	12,000	÷
Benzo(a)anthracene	0.9	-
Benzo(a)pyrene	0.09	0.784
Benzo(b)flouranthene	0.9	
Benzo(g,h,i)perylene	160	•
Benzo(k)flouranthene	9	•
Chrysene	88	-
Dibenzo(a,h)anthracene	0.09	

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

Parameter	TACO	TACO
	Residential	Industrial /
	Tier 1	Commercial
. *	Clean-up	Tier 2
	Objective	Clean-up
	(mg/kg)	Objective
		(mg/kg)
Flouranthene	3,100	•
Fluorene	560	•
Indeno(1,2,3-c,d)pyrene	0.9	•
Naphthalene	1.8	2.54
Phenanthrene	280	-
Pyrene	2,300	-

3. CORRECTIVE ACTION PLAN

The following CAP and Budget has been prepared by CW³M Company, Inc., as their recommendation for the most appropriate and economical approach to the remediation of the contamination at the S & S Infinite Group, Inc. / DBA – Downtown 66 in Peoria, Illinois.

Based upon the analytical data from the soil samples collected on-site, it is apparent that soil contamination above the TACO Tier 2 calculated CUOs was found on site for the current incident at sample locations 11, WC-1, WC-3, and backfill sample 3. The WC-1 and WC-3 samples are included because soil was not removed during early action from the tank pit from which these samples were taken. Soil contamination is confined to the site, and no groundwater contamination was found. All site investigation details were presented in the SICR (CW³M, 2017b).

Soil sample WC-1 exceeds the TACO Tier 2 soil saturation limit for total xylenes, so remediation must occur at that location. Sample WC-3 also has exceedances for industrial / commercial inhalation and construction worker inhalation CUOs. Due to the proximity of these two sample locations, an excavation in that area will be proposed to address the contamination. Since the limits of the area requiring remediation is not well defined, this CAP proposes additional soil borings to define the limits of the needed excavation. The location of the proposed borings is shown on Drawing 0004A in Appendix B.

Soil sample 11 exceeds the construction worker inhalation CUO, and this is proposed to be addressed with a construction worker caution imposed on the affected area.

While a potable well was found in the research, the well is not believed to be in service, and likely no longer exists. The existence of the well will be further researched, including a site

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

visit to attempt to locate the well during the trip to the site to advance the proposed additional soil borings. If the well is located, the abandonment of it will be proposed to the current property owner, and the costs for the abandonment will be included in the proposed CAP Amendment.

The results of the proposed soil sampling and the potable well inspection will be presented in a CAP Amendment. The intent is to accept a groundwater use restriction and an industrial / commercial land use restriction as proposed in the CAP for the previous incident (Marlin, 2015). With the removal of the highly contaminated soil in the area of Tank 1, the remaining contamination found at the site would not model off-site beyond the right-of-way proposed to require a Highway Authority Agreement in the previous CAP. The only additional restriction required would be a construction worker caution in the area of early action sample 11.

3.1 ON-SITE CONTAMINATION

While no groundwater was encountered during this incident, groundwater was encountered during drilling of the previous incident but never encountered after the first round of drilling. Since no groundwater was encountered during site investigation groundwater, flow direction could not be established so for modeling groundwater flow was established in all directions. The soil-to-groundwater modeling dictates the maximum potential distance contamination can travel through the groundwater pathway, which was determined to be fifty-seven feet reaching outside the property line.

The soil contamination was defined to stay within the property boundaries. With the imposition of a groundwater use restriction and a Tier 2 Industrial / Commercial use restriction, the sample results which exceed the CUOs are WC-1, WC-2, WC-3, RC-1, and early action sample 11. WC-2 and RC-1 were from areas which were excavated and disposed of.

3.2 CURRENT AND PROJECTED USES OF THE SITE

The site is located near downtown Peoria and is surrounded by both commercial properties and townhomes; the site lies a few blocks north of Peoria Lake/Illinois River. Currently, the site is closed and there are no known plans on it for the future until such time as environmental issues are resolved. The likely usage would be commercial or industrial.

CW⁸M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

3.3 WATER SUPPLY WELL SURVEY

A survey of water supply wells for the purpose of identifying and locating all community water supply (CWS) wells within 2,500 feet of the UST system and all potable water supply wells within 200 feet of the UST system has been completed. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program (SWAP) online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed online on September 19, 2017 (EPA.STATE.IL.US, 2016). The response indicated that twenty ISGS wells are located within 2,500 feet of the site. The site is within the setback of 2 of the potable wells listed on Table 3-1. Well 43700 is described as an engineering well in the listing. Well 74200 was described as a water well installed by a dairy. CW³M has contacted the current user of the former dairy site, who stated that only city provided water was used at the facility, and they did not believe that the well still existed. The existence of the well will be investigated during corrective action.

Table 3-1. Water Supply Well Information

Well ID	Туре	Distance From USTs (feet)	Depth (feet)	Setback Zone (feet)
73600	ISGS	2,300	98	200
74900	ISGS	2,250	70	200
74600	ISGS	1,929	90	200
73800	ISGS	1,623	67	200
73100	ISGS	1,477	62	200
74100	ISGS	823	87	200
75000	ISGS	854	877	200
48100	ISGS	746	29	200
75200	ISGS	731	47	200
41600	ISGS	1,710	36	200
44600	ISGS	1,240	37	200
44100	ISGS	1,240	37	200
44700	ISGS	855	44	200
43700	ISGS	140	36	200
45100	ISGS	253	51	200
74200	ISGS	185	73	200
43500	ISGS	463	42	200

CW⁸M Company, Inc.
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40500	ISGS	2,283	34	200
99700	ISGS	2,070	71	200
44300	ISGS	900	36	200

3.4 PROPOSED CORRECTIVE ACTION

The activities proposed in the prior approved CAP for the facility (Marlin, 2015) have been evaluated with regard to the contamination found for the 2016-1089 incident. Soil contamination in the area of tank 1 will required additional remediation, and sample 11 from early action exceeds the construction worker inhalation CUO, so a construction worker caution will be needed in that area. The largest potential difference was the discovery of a potential potable well which the site is within the setback of.

The activities proposed in this CAP are to further investigated the limits of the contamination which would require remediation in the area of tank 1, the further investigation of the potential potable well identified in the water supply well survey as the site being within the setback of, and the drafting of a construction worker caution area for the area around sample 11 from early action as depicted on Drawing 0006 in Appendix B.

The further soil investigation around tank 1 is described on Drawing 0004A in Appendix B and consists of three borings which will be advanced to a depth of 20 feet, with samples taken from each five-foot interval and analyzed for BETX, MTBE, and PNAs. One additional boring will be advanced to a depth of 20 feet adjacent to WC-1, and sampled from the 10 to 15 and 15 to 20 foot intervals for BETX, MTBE, and PNAs in order to determine the vertical extent of the contamination. Those sample results will be used to determine the limits of an excavation in that area to remove soil contamination which exceeds the TACO Tier 2 Industrial / Commercial CUOs as shown in Table 2-1. The excavation will be proposed in a CAP Amendment.

On the trip to the site to obtain the samples described above, a visit to the site where the potable well is supposed to be located will also be conducted. If the well is found to still exist, the abandonment of the well will be offered to the property owner, and the cost for the abandonment will be included in a CAP Amendment. If the owner does not want to abandon the well, then a CAP Amendment will be prepared to address the contamination which would threaten the potable well.

With the soil contamination in the area of Tank 1 removed, the remaining soil contamination associated with incident 2016-1089 does not model beyond the right-of-way area identified as needing a Highway Authority Agreement in the 2014-0963 CAP.

CW³M Company, Inc. Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

Following the June 2013 IEPA Leaking Underground Storage Tank (LUST) flowchart for vapor intrusion assessment, no free product was found. Only soil sample WC-1 from site investigation sampling exceeds the Soil Saturation Limits (Csat) for any of the contaminants of concern. The area where that sample is located will be proposed to be removed in a CAP amendment. Groundwater has not been encountered. Once the area around WC-1 has been excavated, based on the flowchart, vapor intrusion investigation would be required only if the Agency determines that a site-specific evaluation is necessary. For these reasons, it is not proposed to conduct a vapor intrusion investigation for this incident.

3.5 CLOSURE

The property will subject to a groundwater use restriction and an Industrial / Commercial land use restriction, as proposed in the previous CAP (Marlin, 2015). A construction worker caution will be imposed in the area of early action sample 11, as depicted on Drawing 0006 in Appendix B.

The existence of potable well which the site is within the setback of will be investigated during the activities proposed in this CAP. If the well does exist, the preferred option will be to abandon the well, and those costs would be proposed in the next CAP amendment. If the well is not found to exist, then no additional remediation efforts would be needed. Should the well exist and the owner of the well be unwilling to have the well abandoned, then additional remediation efforts on site would be needed, and these would be proposed in the next CAP amendment.

Once the limits of the soil contamination in the area of WC-1 and WC-3 which exceed Tier 2 CUOs are defined, a CAP amendment to excavate the identified area will be submitted. When the excavation is conducted, wall and floor samples will be used to verify the levels of contamination remaining, and that the area no longer has soil contamination over Tier 2 CUOs.

Modeling of the remaining contamination will then be conducted, and a Highway Authority Agreement will be used to address the potential off-site groundwater contamination. If the contamination models onto other off-site properties, then the CAP may need revised to either include Environmental Land Use Controls (ELUCs), or use a limited groundwater ordinance to address the potential off-site groundwater contamination instead of the approved Highway Authority Agreement.

Once all CAP activities conclude, a Corrective Action Completion Report (CACR) addressing both incidents at the site will be submitted to the IEPA. The closure report will be accompanied by a certification from an Illinois Registered Professional Engineer.

CW³M Company, Inc.
Corrective Action Plan
S&S Infinite Group, Inc.
LPC #1430560114 Incident Number 2016-1089

4.0 REFERENCES

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CW³M, 2016. CW³M Company, Inc., 20-Day Certification, S&S Infinite Group, Peoria, Illinois, December 2, 2016.

CW³M, 2016a. CW³M Company, Inc., Early Action Extension Request, S&S Infinite Group, Peoria, Illinois, December 20, 2016.

CW³M, 2017. CW³M Company, Inc., 45 Day Report, S&S Infinite Group, Peoria, Illinois, January 19, 2017.

CW³M, 2017a. CW³M Company, Inc., 45 Day Report Addendum, S&S Infinite Group, Peoria, Illinois, February 10, 2017.

CW³M, 2017b. CW³M Company, Inc., Site Investigation Completion Report, S&S Infinite Group, Peoria, Illinois, October, 10, 2017.

EPA.STATE.IL.US, 2016. Source Water Assessment Program, Water Well Survey Map www.maps.epa.state.il.us, accessed October 6, 2016.

IEPA, 2015. Illinois Environmental Protection Agency, Corrective Action Plan Correspondence (2014-0963), S&S Infinite Group, Peoria, Illinois, July 21, 2015.

IEPA, 2016. Illinois Environmental Protection Agency, Early Action Extension Report Correspondence, S&S Infinite Group, Peoria, Illinois, December 28, 2016.

IEPA 2017. Illinois Environmental Protection Agency, 45 Day Report Correspondence, S&S Infinite Group, January 26, 2017.

IEPA 2017a. Illinois Environmental Protection Agency, 45 Day Correspondence, May 17, 2017.

IEPA, 2018. Illinois Environmental Protection Agency, Site Investigation Completion Report Correspondence. S&S Infinite Group. February 2, 2018.

Marlin, 2015. Marlin Environmental, *Corrective Action Plan (2014-0963)*, S&S Infinite Group, Peoria, Illinois, July 2, 2015.

CW⁸M Company, Inc.
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OSFM, 2016. Illinois Office of the State Fire Marshal, Permit for Removal of Underground Storage Tanks(s), S&S Infinite Group, Peoria, Illinois, December 12, 2016.

APPENDIX A CORRECTIVE ACTION PLAN FORM

CORRECTIVE ACTION PLAN S&S Infinite Group Peoria, Illinois



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Corrective Action Plan

A.	Site Identification					
	IEMA Incident # (6- or 8-digit): 20161	IEPA LPC#	IEPA LPC# (10-digit): 1430560114			
	Site Name: S&S Infinite Group, Inc./	DBA- Downtown 66				
	Site Address (Not a P.O. Box): 400	North East Adams Street				
	City: Peoria	County: Peoria		ZIP Code: <u>61603</u>		
В.	Site Information			÷		
	1. Will the owner or operator seek re	eimbursement from the U	Inderground Storage	Tank Fund?	☐ No	
	2. If yes, is the budget attached?	✓ Yes □ No		*		
	3. Is this an amended plan?	☐ Yes 🗸 No				
	4. Identify the material(s) released:	Gasoline, Diesel Fuel,	Used Oil			
	5. This Corrective Action Plan is sul					
	a. 35 III. Adm. Code 731.166			RECEI		
	The material released wa	ıs:		MAR 2 0	2018	
	-petroleum				2010	
	-hazardous substar Protection Act S	nce (see Environmental Section 3.215)		IEPA/I	30L	
	b. 35 III. Adm. Code 732.404			:		
	c. 35 III. Adm. Code 734.335		/	·		
C.	Proposed Methods of Remedi	ation		,		
	1. Soil Tier 2 Industrial/Commercial CUOs, Construction Worker Caution, future excavation					
	Groundwater					
D.	Soil and Groundwater Investig (for incidents subject to 35 III. Adm. Code		lassified using Method	One or Two, if not previously p	provided)	
	Provide the following:					
	1. Description of investigation activity	lies performed to define t	he extents of soil and	d/or groundwater contamina	ation;	
	2. Analytical results, chain-of-custoo	dy forms, and laboratory o	certifications;			
	3. Tables comparing analytical resu	Its to applicable remediat	ion objectives;	:		
-				•		

IL 532 2287 LPC 513 Rev. July 2007 Corrective Action Plan
Page 1 of 4

- 4. Boring logs;
- 5. Monitoring well logs; and
- 6. Site maps meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

- 1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
- 2. Identification of the remediation objectives proposed for the site;
- 3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
- A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
- 5. A description of the current and projected future uses of the site;
- 6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans; and
 - c. maps showing area covered by barriers and institutional controls:
- 7. The water supply well survey:
 - Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

- 8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
- 9. Site map(s) meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440;
- 10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
- 11. A description of bench/pilot studies;
- 12. Cost comparison between proposed method of remediation and other methods of remediation;
- 13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
- 14. Provide documentation to demonstrate the following for alternative technologies:
 - a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met:
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

- A description of the tests to be performed in determining whether the following requirements will be met:
 - Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 III. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a pH \leq 2.0 or \geq 12.5; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 III. Adm. Code 721.124.
- 2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator	Consultant
Name S & S Infinite Group, Inc.	Company CWM Company, Inc.
Contact Syed Muneeb	Contact Carol L. Rowe, P.G.
Address 400 North East Adams Street	Address 701 W. South Grand Avenue
City Peoria	City Springfield
State Illinois	State Illinois
Zip Code 61603	Zip Code 62704
Phone (309) 453-2280 n	Phone (217) 522-8001
Signature	Signature
Date 3/16/18	Date
	•

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Vince E. Smith, P.E.
Company CWM Comapny, Inc.
Address 701 W. South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone (217) 522-8001
III. Registration No. 062 - 6461/8
License Expiration Date 11/30/19
Signature E Smith
Date 3/19/18

L.P.E. or L.P.G.SealCEIVED

MAR 2 0 2018



APPENDIX B SITE MAPS AND ILLUSTRATIONS

CORRECTIVE ACTION PLAN
S&S Infinite Group
Peoria, Illinois

INDEX OF DRAWINGS

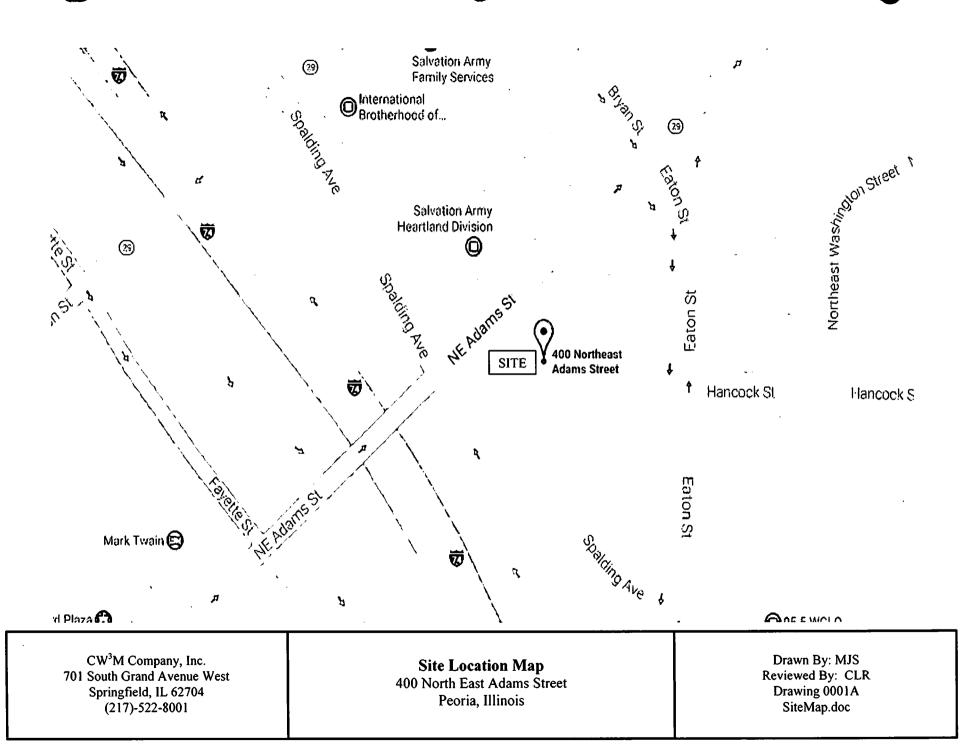
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Number		٠			
0001A	Site Location Map				
0001B	Surrounding Populations Map	•			
0001C	Water Supply Well Map	•			
0002	Site Map				
0003	Early Action Value Map	٠			
0004 $_{\frown}$	Soil Boring Location Map	:			
0004A	Proposed Soil Boring Location Map	Ċ			
0005A	Soil Contamination Values Map (0-5 feet)	•			
0005B	Soil Contamination Values Map (5-10 feet)	•			
0006	Construction Worker Caution Area				
0007	TACO Parameters Map	•			

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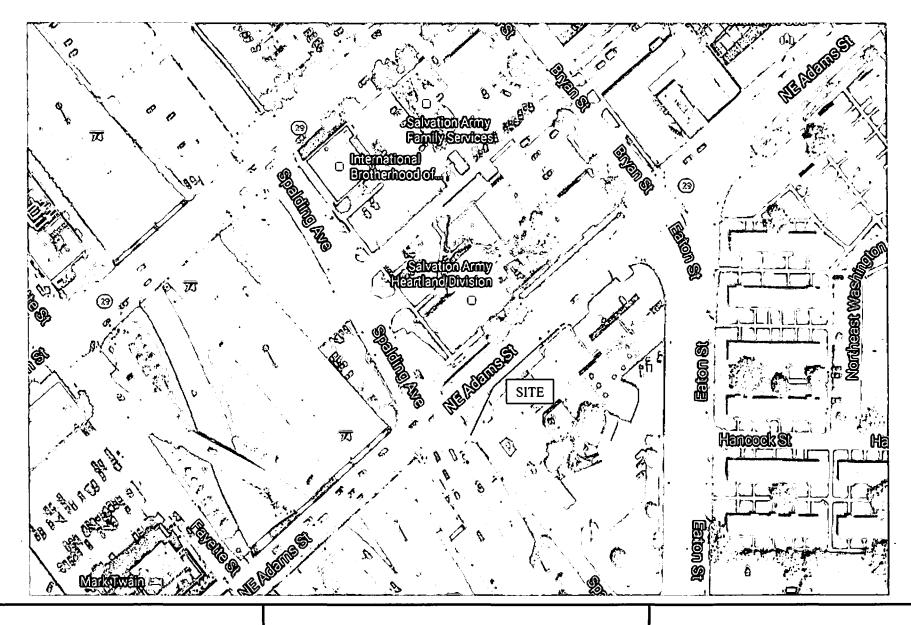
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and not the scanning or filming processes.

Com Microfilm Company (217) 525-5860



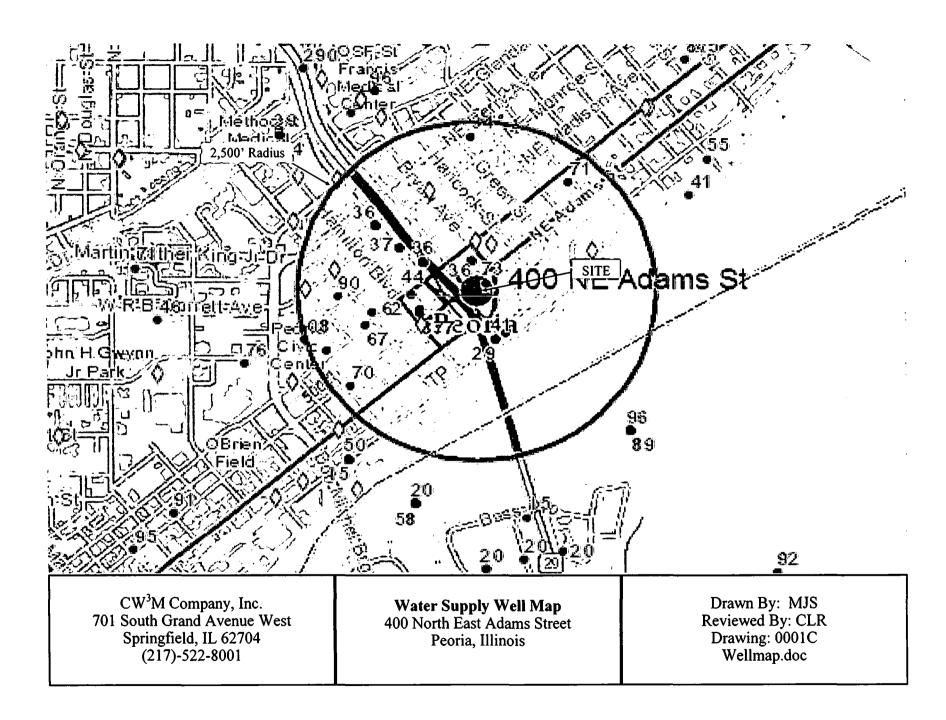


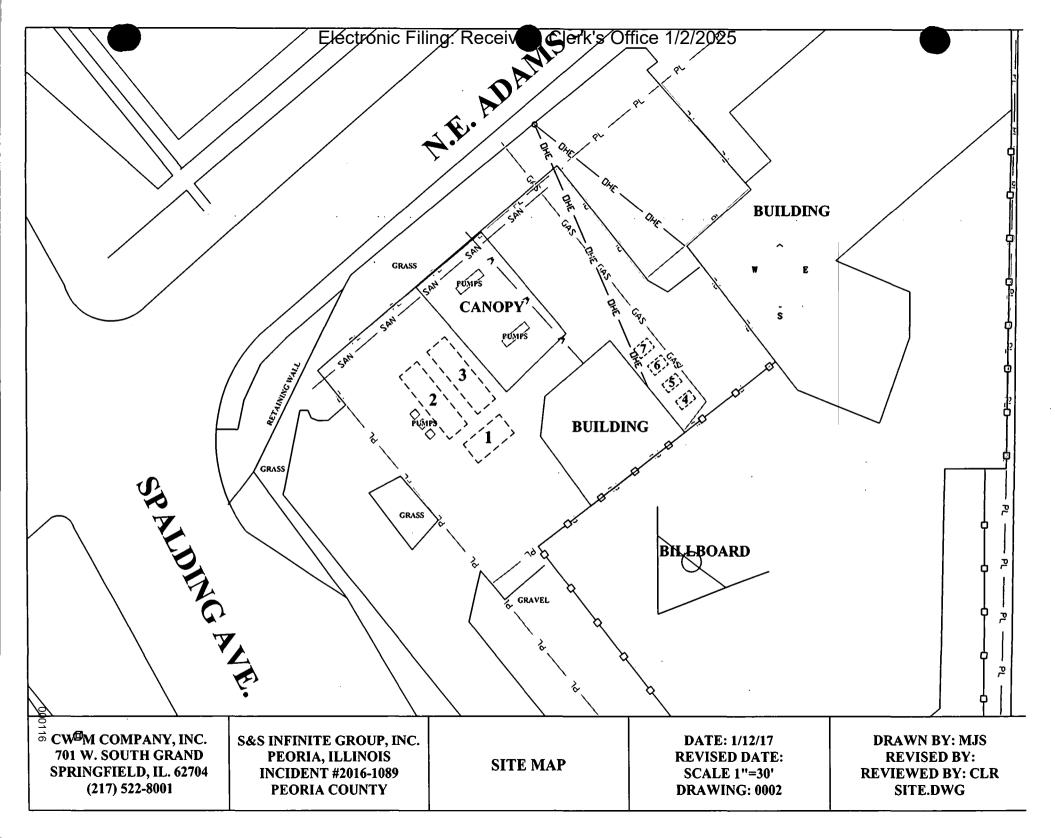


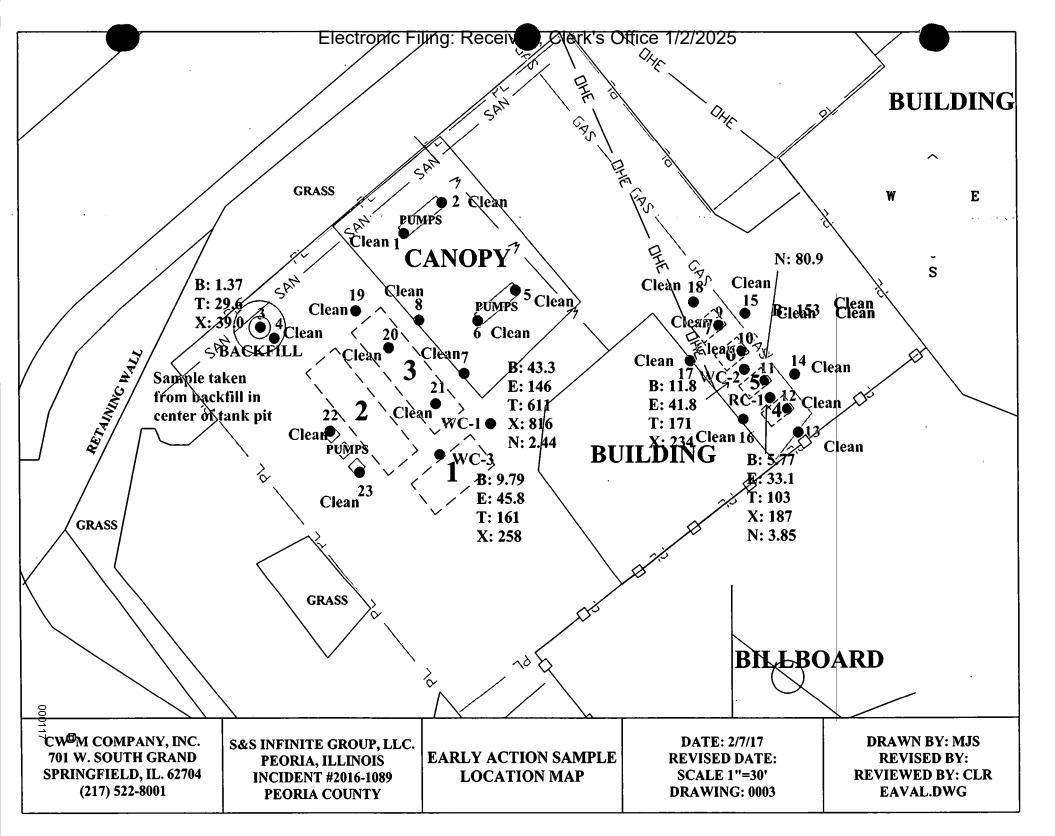
CW³M Company, Inc. 701 South Grand Avenue West Springfield, IL 62704 (217)-522-8001

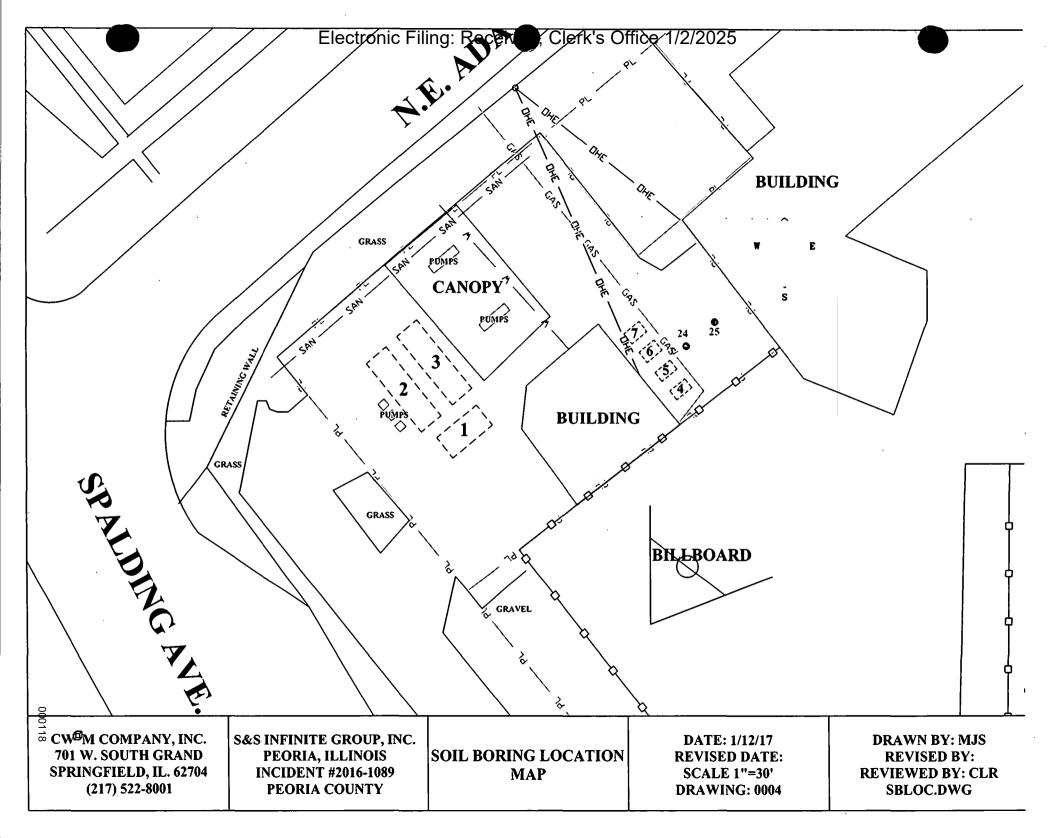
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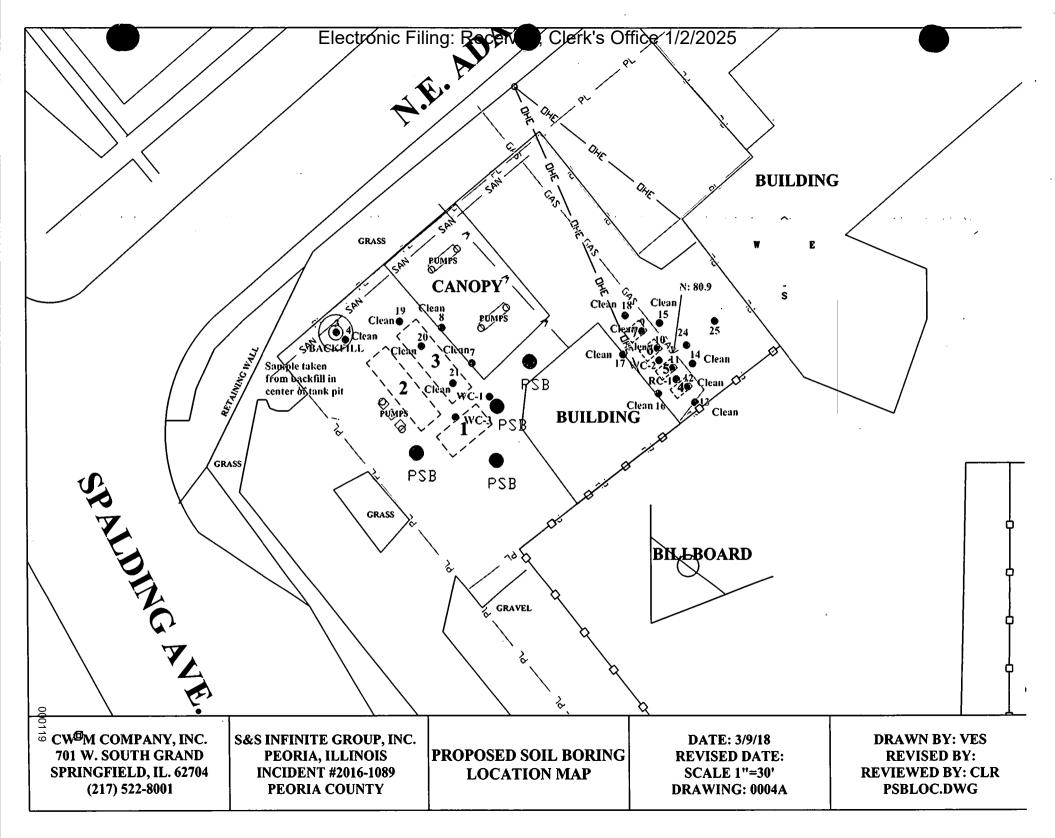
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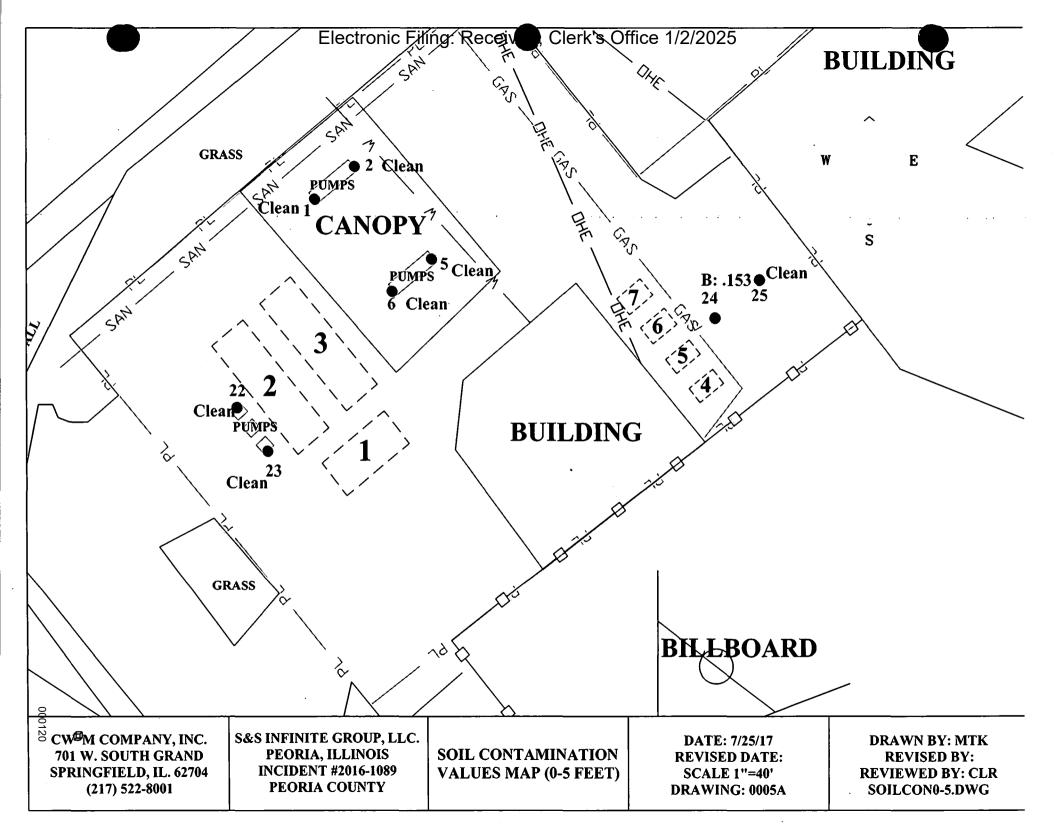


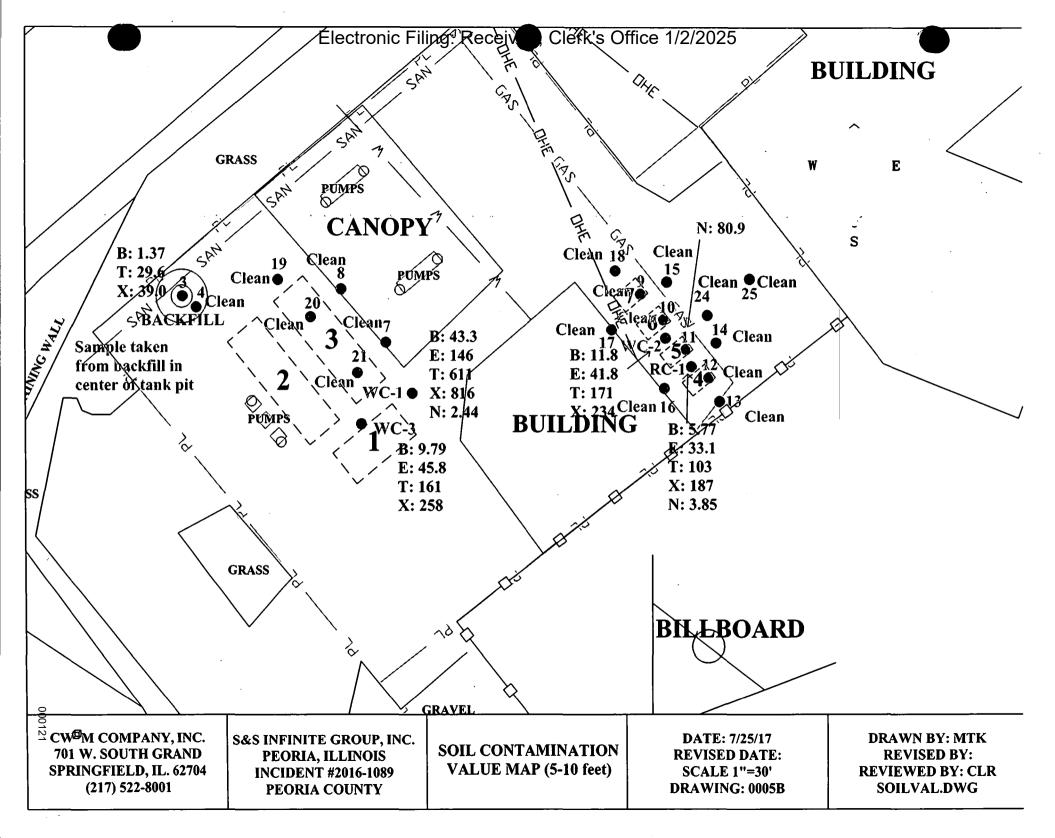


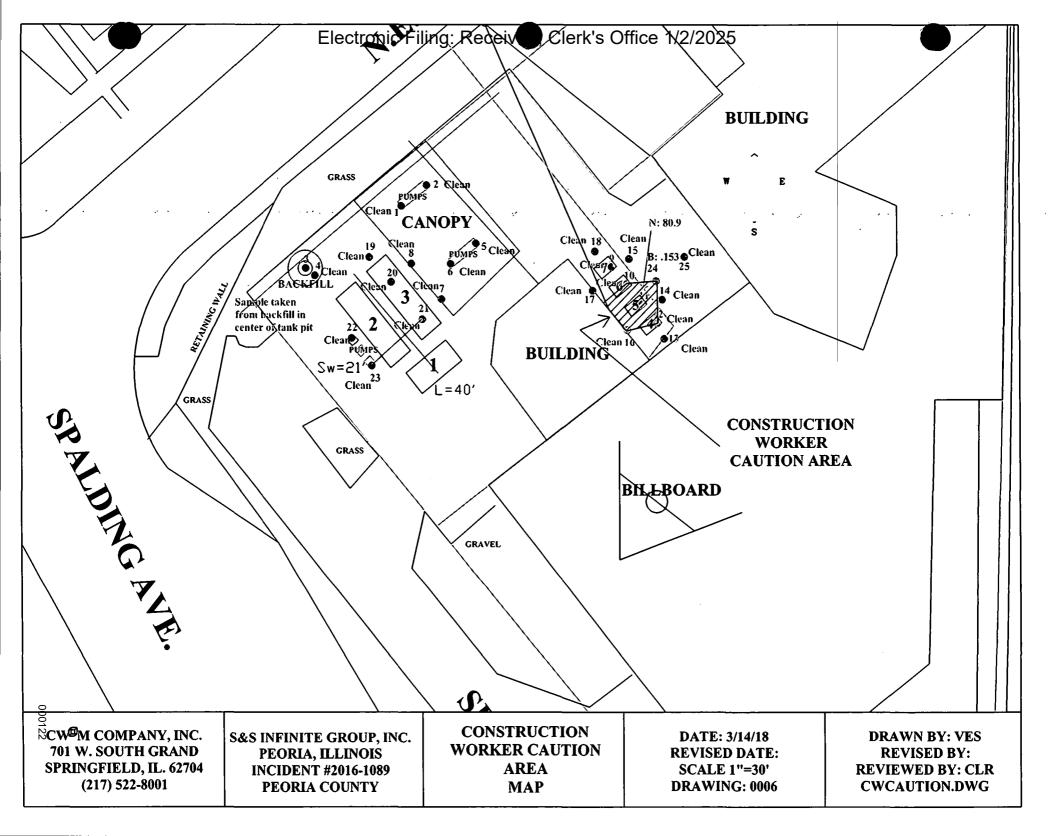


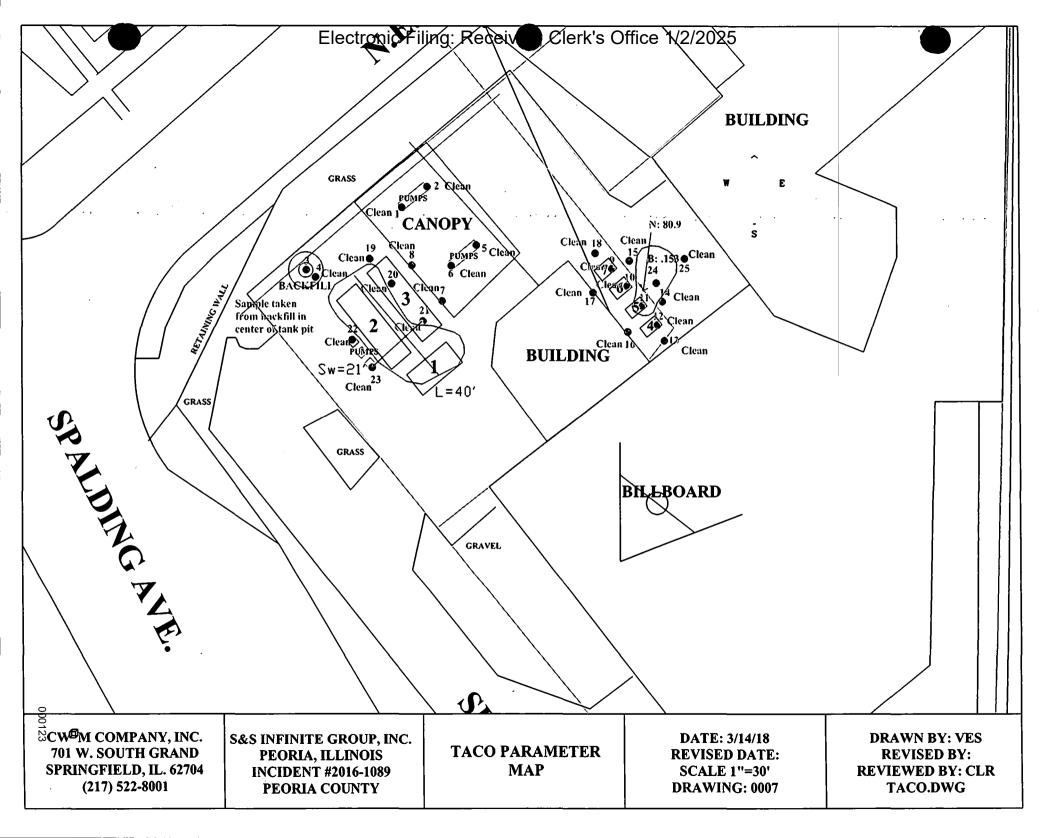












APPENDIX C OSFM ELIGIBILITY DETERMINATION

CORRECTIVE ACTION PLAN S&S Infinite Group Peoria, Illinois



Office of the Illinois State Fire Marshal

2/15/2017

S and S Infinite Group Incorporated 400 North East Adams Street Peoria, IL 616034202

In Re: Facility No. 3010480

IEMA Incident No. 20161089

Downtown 66

400 North East Adams Street Peoria, Peoria, IL 616034202

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 15, 2017 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$5,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 3 10000 gallon Gasoline

Tank 4 350 gallon Gasoline

Tank 5 350 gallon Gasoline

Tank 6 560 gallon Diesel Fuel

Tank 7 560 gallon Used Oil

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

- Neither the owner nor the operator is the United States Government,
- 2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
- 3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

- 4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
- 5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
- The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.

7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and the set deductible. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of issuance of the final decision, (35 Illinois Administrative Code 105.504(b)).

For information regarding the filing of an appeal, please contact:

Clerk Illinois Pollution Control Board State of Illinois Center 100 West Randolph, Suite 11-500 Chicago, Illinois 60601 (312) 814-3620

The following tanks are also listed for this site:

Tank 1 6000 gallon Diesel Fuel Tank 2 10000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

Deanne Lock

Division of Petroleum and Chemical Safety

APPENDIX D

CORRECTIVE ACTION PLAN BUDGET AND CERTIFICATION

CORRECTIVE ACTION PLAN
S&S Infinite Group
Peoria, Illinois

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2016–1089. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 III. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 III. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

Costs associated with ineligible tanks.

Costs associated with site restoration (e.g., pump islands, canopies).

Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).

Costs incurred prior to IEMA notification.

Costs associated with planned tank pulls.

Legal fees or costs.

Costs incurred prior to July 28, 1989.

Owner/Operator: S&S Infinite Group, Inc.

Costs associated with installation of new USTs or the repair of existing USTs.

Authorized Representative: Syled Muneeb	Title: Agent
Signature	Date: 3/ / v/ / 8
Subscribed and sworn to before me thed	ay of Mord . 2018 CAROLL SOUT
(,)0	Seal: Official Seal
(Nota r) Publ ic)	Notary Public - State of Illinois My Commission Expires Mar 18, 2021
conducted under my supervision or were conducted u or Licensed Professional Geologist and reviewed by n prepared under my supervision; that, to the best of my or report has been completed in accordance with the I 732 or 734, and generally accepted standards and pra accurate and complete. I am aware there are significated to the conduction of the conduc	ies that are the subject of this plan, budget, or report were inder the supervision of another Licensed Professional Engineer me; that this plan, budget, or report and all attachments were y knowledge and belief, the work described in the plan, budget, Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code actices of my profession; and that the information presented is ant penalties for submitting false statements or representations apprisonment, or both as provided in Sections 44 and 57.17 of the 17].
L.P.E./L.P.G.: Vince E. Smith	L.P.E./L.P.G. Seal:
L.P.E./L.P.G. Signature:	Date: 3/9/10
Subscribed and sworp to before me the	ay of March 2018
	SABOL L ROWE Official Seal
(Notary Public)	Notary Public - State of Illinois
The Illinois EPA is authorized to require this informat	My Commission Expires Mar 18, 2021 n under 415 IL CS 5/1 Disclosure of this information is

required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #:	1430650114	County:	Peoria	·
City: Pe	oria	Site Name:	S & S Infinite Group,	Inc.
Site Add	ress: 400 NE Adams Street		,	
IEMA Inc	cident No.: 2016-1089		_	
IEMA No	otification Date: 11/21/2016		 -	
Date this	form was prepared: Mar 9, 2018			RECEIVE
This for	m is being submitted as a (check o	ne, if applicable	·):	MAR 2 0 2018
\boxtimes	Budget Proposal			IEPA/BO
	Budget Amendment (Budget amend	lments must inclu	ide only the costs ove	
	Billing Package			
	Please provide the name(s) and da	te(s) of report(s)	documenting the cost	s requested:
	Name(s):			
	Date(s):-	<u> </u>	<u>. </u>	· · · · · · · · · · · · · · · · · · ·
This pac	kage is being submitted for the sit	e activities indi	cated below:	
·35 III. Ad	lm. Code 734:	·		
	Early Action			
	Free Product Removal after Early A	ction		
	Site Investigation	Stage 1:	Stage 2:	Stage 3:
\boxtimes	Corrective Action	Actual Costs		
35 III. Ad	lm. Code 732:			•
	Early Action			
	Free Product Removal after Early A	ction		
	Site Classification			•
	Low Priority Corrective Action	`		
	High Priority Corrective Action			•
35 III. Ad	lm. Code 731:		•	
	Site Investigation			•
	Corrective Action			

IL 532 -2825 LPC 630 Rev. 1/ 2007

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: S&S	Infinite Gr	oup			
Send in care of: <u>CWM Compa</u>	ny, Inc.	···		· · · · · · · · · · · · · · · · · · ·	
Address: P.O. Box 571		· -			
City: Carlinville		State: IL		Zip: <u>62</u>	626
The payee is the: Own	er ☑ Ope —	rator 🗌	(Check on	e or both.) W-9 must be	submitted.
Signature of the owner or opera	tor of the UST(s)	(required)		_	print off a W-9 Form.
Number of petroleum USTs in I parent or joint stock company or joint stock company of the over than 101:	of the owner or o wner or operator	perator; and a			
Number of USTs at the site: _ have been removed.) Number of incidents reported to	·		s includes (JSTs presently at t	he site and USTs that
Incident Numbers assigned to	•		USTs: 2	0140963	20161089
Please list all tanks that have e	ver been located Size (gallons)	d at the site a Did US' a rele	Γ have	at are presently loo	Type of Release Tank Leak / Overfill /
Di anal	6,000	Yes X	No 🗍	20140963	Piping Leak
Diesel	10,000	Yes X	No [20140963	Overfill
Gasoline Gasoline	10,000	Yes 🗓	No 🗌	20140983	Overfill Overfill
Gasoline	350	Yes X	No 🗌	20161089	Tank Leak
Gasoline	350	Yes 🗓	No 🗌	20161089	Tank Leak
Used Oil	560	Yes X	No 🗌	20161089	Tank Leak
Used Oil	560	Yes X	No 🗌	20161089	Tank Leak
		Yes [No 🗌		234.0
		Yes 🗌	No 🗌		

Add More Rows

Undo Last Add

Budget Summary

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action	
				:	Proposed	
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 1,820.00	
Analytical Costs Form	\$	\$	\$	\$.	\$ 4,434.28	
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$	
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$	
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$	
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 21,921.44	
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 467.50	
Handling Charges Form	Charges Form Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.					
Total	\$	\$	\$	\$	\$ 28,643.22	

Drilling and Monitoring Well Costs Form

1. Drilling

	Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
ſ	4	PUSH	20.00	80.00	Soil Plume Delineation
-	a ya marana a sana	为			CAR COMPAGE AND AND AND PROPERTY.
-	<u> </u>	m training of the	The second		
\ -	The second secon	and the second of the second o			

Subpart H
minimum payment
amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		29.07	
Total Feet via PUSH:	80.00	22.75	1,820.00
Total Feet for Injection via PUSH:		18.96	
		Total Drilling Costs:	1,820.00

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well Total Feet of to Be Installe	
		The Aller		
		The second second		

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)		
Total Feet via HSA:					
Total Feet via PUSH:					
Total Feet of 4" or 6" Recovery:		·	:		
Total Feet of 8" or Greater Recovery:			:		
	_	Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$1,820.00

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis	:	Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	14	Х	107.44	=	\$1,504.16
BETX Water with MTBE EPA 8260		Х		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		Х		=	
Flash Point or Ignitability Analysis EPA 1010		Х		=	
Fraction Organic Carbon Content (foc) ASTM-D 2974-00		Х		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/ neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734.Appendix B		х		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		Х		=	
PCBs		X		=	
Pesticides		Х		=	
pH		Х		=	
Phenol	_ :	Х	,	=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270	14	X	192.14	=	\$2,689.96
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		Х		=	
Reactivity		Х		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		<u>X</u>		=	
		Х		=	
		Х		=	
		X		=	
		X		=	
		X	:	=	
Geo-Technical Analysis					
Soil Bulk Density (pb) ASTM D2937-94		Х		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	· · · · · · · · · · · · · · · · · · ·
Moisture Content (w) ASTM D2216-92 / D4643-93		X	<u> </u>	=_	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X	ļ <u>.</u>	=	
Soil Classification ASTM D2488-90 / D2487-90		Х		=	
Soil Particle Density (p _s) ASTM D854-92		X	<u> </u>	=	
		X		=	
<u> </u>		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X		=	
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Trace proparation los les motale traces (en elle per traces dample)		†			
Arsenic TCLP Soil		X	· · · · · · · · · · · · · · · · · · ·	=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		Х		=	
Barium Total Soil		X		=	
Barium Water		Х		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		Х		=	
Chromium Total Soil		Х		=	
Chromium Water		X		=	
Cyanide TCLP Soil	-	X		=	
Cyanide Total Soil		Х		=	
Cyanide Water		X		=	
Iron TCLP Soil		Х		=	
Iron Total Soil		Х		=	
Iron Water		Х		=	
Lead TCLP Soil		X		=	
Lead Total Soil		Х		=	
Lead Water		Х		=	
Mercury TCLP Soil		Х		=	
Mercury Total Soil	 	Х		=	
Mercury Water		X		=	
Selenium TCLP Soil		X	-	=	
Selenium Total Soil		Х		=	
Selenium Water		Х		=	·
Silver TCLP Soil		X	<u> </u>	·=	
Silver Total Soil		X		=	
Silver Water		Х	:	=	
Metals TCLP Soil (a combination of all metals) RCRA		Х		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X			
		X			
		Х		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device.	14,	X	12.64	"	\$176.96
Sample Shipping per sampling event ¹	1	Х	63.20	11	\$63.20

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 4,434.28

Consulting Personnel Costs Form

Employee Nam	ne	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Tas	k		
					
		Senior Project Manager	40.00	126.40	\$5,056.00
CCAP	Corrective Act	tion Design / Report Development	/ IEPA Correspond	dence	
		Senior Prof. Engineer	3.00	164.33	\$492.99
ССАР	Report Reviev	v and Certification		<u>.</u> :	<u> </u>
					
·	· · · · · · · · · · · · · · · · · · ·				
	-				
·	·	Senior Draftperson/CAD	6.00	75.83	\$454.98
CCAP	Drafting and E	diting Maps for Report			
		<u></u>		· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	·				
		1			· · · · · · · · · · · · · · · · · · ·
· ·	•	Senior Admin. Assistant	3.00	56.88	\$170.64
CCAP	Report Compil	lation, Assembly, and Distribution		·	
				: : 1	
<u> </u>		<u> </u>			
<u>-</u>				•	
		<u></u>	<u> </u>	 	 -
<u>-</u>		Senior Project Manager	16.00	126.40	\$2,022.40
TACO 2 or 3	TACO Tier 2 C	Calculations / Development of CUC	os / GW Modeling		
		. [T . T	
				<u> </u>	
				<u>;</u>	

Employee Nam	е	Personnel Title	Hours	Rate* (\$)	Total Cost	
Remediation Category		Task				
		Societ Project Manager		<u> </u>		
·		Senior Project Manager	24.00	126.40	\$3,033.60	
CCAP-Budget	Budget Prepara	tion / Data Evaluation		·		
			T			
		<u> </u>				
		Senior Prof. Engineer	3.00	164.33	\$492.99	
CCAP-Budget	Budget Review	& Certification				
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Employee Nam	e	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			_
•		Senior Project Manager	4.00	126.40	\$505.60
CCA-Field	Field Preparation	on, Scheduling, Arrangements/Cod	ordination for Inve	estigation Activitie	s / Well Owner
		Engineer II	8.00	107.44	\$859.52
CCA-Field	Drilling / Soil Sa	ampling / Potable Well Survey			
		Engineer III	10.00	126.40	\$1,264.00
CCA-Field	Field Prep/Drilli	ng / Soil Sampling / Potable Well	Survey		
·		Senior Project Manager	3.00	126.40	\$379.20
CCA-Field	Documentation	/ Field Reports / Data			
		Senior Admin. Assistant	2.00	56.88	\$113.76
CCA-Field	Arrangements 1	or Investigation, Utilities/JULIE, ar	nd Scheduling		
		Senior Project Manager	8.00	126.40	\$1,011.20
CCA-Field	Review Analytic	cal Results, Borelogs?Tabulation o	f Analytical	· ·	
	<u> </u>	Engineer III	6.00	126.40	\$758.40
CCA-Field	Record Borelog	s, Tabulation of Analytical Results		3.	
					
				:	
	-				
· · · · · · · · · · · · · · · · · · ·					

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost	
Remediation Category		Task				
			T	· T		
		Senior Prof. Engineer	6.00	164.33	\$985.98	
CA-Pay	Reimbursement	Review and Certification				
	— — , _	Outline And Tradesistan		 		
<u></u>		Senior Acct. Technician	30.00	69.51	\$2,085.30	
CA-Pay	Reimbursement	Preparation Forms				
		Senior Admin. Assistant				
CA-Pay			8.00	56.88	\$455.04	
——————————————————————————————————————	Reimbursement	Compilation, Assembly, and Distri	bution	_ .		
	•	Geologist III	16.00	111.24	\$1,779.84	
CA-Pay	Peimbursement	Development / Inputs / Contractor	-l			
	rteimbursement	Development / imputs / Contractor	invoicing / Evaic	Janon With Bodge		
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^{*}Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$21,921.44

Consultant's Materials Costs Form

Materi	als, Equipment,	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost	
Remediat	ion Category		Description/	Justification	•		
Copies	· · · · · · · · · · · · · · · · · · ·		300.00	.15	/each	\$45.00	
	CCAP	Copies of Plan and Repor	rt	···			
Postage			3.00	7.50	/each	\$22.50	
	CCAP	Report/ Forms/ Distributio	n 				
Copies		u	100.00	.15	/each	\$15.00	
CCA	P-Budget	Copies of Budget	Copies of Budget				
					:	(
					· · ·		
Copies			600.00	.15	/each	\$90.00	
C	A-Pay ———————	Copies of Reimbursement	t Claim				
Postage			4.00	7.50	/each	\$30.00	
C.	A-Pay 	Reimbursement Distribution	on / Forms				
	1				t,		
					· ·		
Copies			100.00	.15	/each	\$15.00	
cc	A-Field 	Field Preparation/Maps/Bo	orelogs/Analytical Re	ports/Field Repo	orts		
Mileage			150.00	.54	/mile	\$81.00	
CCA	A-Field	One Round Trip from Sprir	ngfield Office to Site	(Drilling, Potable	e Well Inves	itigation)	

Materials, Equipment	, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description/	Justification	,	
[·	
PID Rental		1.00	129.00	/day	\$129.00
CCA-Field	Detect VOC Levels in Se	oil Samples			
	· · · · · · · · · · · · · · · · · · ·	1			
Measuring Wheel	· · · · · · · · · · · · · · · · · · ·	1.00	24.00	/day	\$24.00
CCA-Field	Mapping Sampling Loca	tions			
				 ;	
Disposable Gloves		1.00	16.00	/box	\$16.00
CCA-Field	Disposable Latex Glove	s for Soil Sampling			
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	Г				
		Total of Consultan	t Materials Cost	is	\$467.50

APPENDIX E BORE LOGS

CORRECTIVE ACTION PLAN
S&S Infinite Group
Peoria, Illinois

	Illinois Environmental Protection Agency					CW [□] M COMPANY, INC.				
							NG BOREHOLE LOG			
							Page 1 of 1			
r in	ICIDENT #: 2016-1089		BOREHOI	LE NUM	IBER:	WC-I				
STIE NA	ME: S & S Infinite Group		BORING I			15' N of the I	NW corner of building			
SITE AD	DRESS: 400 North East Adams Street									
DATE C	Peoria, IL 61603		RIG TYPE			unted drill rig				
	IME STARTED: 11/21/16 3:00 PM IME FINISHED: 11/21/16 3:10 PM		DRILLING/ BACKFIL		Grout / Co					
DEPTH		USCS	Sample	PID			REMARKS: (Odor, Color,			
(FEET)	DESCRIPTION	CLASS	-	(ppm)	- 1		Moisture, Penetrometer, etc.)			
0	Concrete									
	Top soil	ОН		0						
1 -		0								
'	Backfill	1								
2 -	Backiiii									
<i>-</i>			050/	•						
			95%	0	Grab	WC-1				
3						2.5'				
l _										
4		i		0						
· _										
5			•							
							Odor and Discoloration			
6				132						
8 -			100%	1178	Grab	WC-I	DETY MIDE DNAG			
l °⊢	•		100%	11/0	Grab		BETX, MTBE, PNAs			
	·					7.5'	WC Parameters			
9—										
_				1178						
10							▼			
_	End of Boring 10'				•					
11							i			
12										
	•									
13										
14										
'']		J					
۱,, ⊢										
15	Consideration lines are assessing to the constitution of									
	Stratification lines are approximate, in-situ transition between a Sampled at location of highest PID reading above									
		tau					<i>.</i>			
	Manway / Surface Elevation:									
	Groundwater Depth While Drilling:	N/A	Auger Dep	th:	10'	Driller:	AEDC			
∇	Groundwater Depth After Drilling:		Rotary De	pth:		Geologist:	. MDR			

	Illinois Environmental Protection Agency					CW [□] M	COMPANY, INC.	
						DRILLI	NG BOREHOLE LOG	
							Page 1 of 1.	
	NCIDENT #: 2016-1089		BOREHOI			WC-2		
	AME: S & S Infinite Group		BORING I	LOCATI	ON:	20' S & 5' E	of the NE comer of building	
SITE AL	DDRESS: 400 North East Adams Street		DIC TYPE	,	T 1	.4 1 1 211 1		
DATE/T	Peoria, IL 61603		RIG TYPE DRILLING/			unted drill rig	<u> </u>	
	IME FINISHED: 11/21/16 3:20 PM		BACKFIL		Grout / Co			
DEPTH		USCS	Sample	PID		SAMPLE	REMARKS: (Odor, Color,	
(FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)	
0	Concrete						2332	
	Top soil	ОН		0				
1				•				
-	Backfill	1			•			
2 -							·	
			90%	0	Grab	WC-2		
3 -			7070		Giao	2.5'	_	
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5 _		l						
_							Odor and Discoloration	
6		ł		560				
						•	,	
	•							
8			95%	1178	Grab	WC-2	BETX, MTBE, PNAs	
						7.5'	WC Parameters	
9 -						7.0	,	
·				992				
10				992			1	
_	Fud -CD-size 10						v	
_	End of Boring 10'						1	
11							·	
-	·			- 1				
12							•	
13				ļ	Į		j	
							 	
14	,						·	
	}						j	
15			i					
	Stratification lines are approximate, in-situ transition between s	oil types m	av be gradual			<u>-</u>		
	Sampled at location of highest PID reading above						ļ	
<u> </u>								
	Manway / Surface Elevation:	<u></u>					<u> </u>	
	Groundwater Depth While Drilling:	N/A	Auger Dep	th:	10'	Driller:	AEDC	
\sim	Groundwater Depth After Drilling:		Rotary De	pth:		Geologist:	MDR	

	Illinois Environmental Protection Agency		· .	· -			COMPANY, INC. NG BOREHOLE LOG
							Page 1 of 1
	CIDENT #: 2016-1089		BOREHOI			WC-3	
	ME: S & S Infinite Group		BORING I	LOCATI	ON:	15' N & 12' V	W of the NW corner of building
ITE AD	DRESS: 400 North East Adams Street						
	Peoria, IL 61603		RIG TYPE			unted drill rig	
	IME STARTED: 12/16/16 8:55 PM		DRILLING/				
EPTH	ME FINISHED: 12/16/16 9:10 PM SOIL AND ROCK	USCS	BACKFILI Sample	PID	Grout / Co		REMARKS: (Odor, Color,
FEET)	DESCRIPTION	CLASS	_	(ppm)	Туре		Moisture, Penetrometer, etc.)
	Concrete	1	20007013	(pp)			
\rightarrow		011		_			
	Top soil	ОН		0			
¹ —		4					
	Backfill						
2	•	ľ	'				
		ŀ	90%	0	Grab	WC-3	
3						2.5'	
, ⊢							
"—							:
							·
5 _							•
						1	Odor and Discoloration
6 7]]	125			
							•
						;	
/							
_							
8		ļ	95%	1178	Grab	WC-3	BETX, MTBE, WC Parameters
	•					5-10'	
9]							
				806			
.0 -	•	ł					↓
	End of Domina 101	1		l			·
_	End of Boring 10'	1		i			
1_				1			
		1					:
2		İ					
				ľ	i		
3					i		`
~ ~					l		
$_{\lambda}$ \dashv					j		
4					ļ		
		[,		j			
5							
	Stratification lines are approximate, in-situ transition between Composite of 5' section with highest degree of con				, and PID	,	
	EOB 20' Dry Sand Manway / Surface Elevation:		·				
W	Groundwater Depth While Drilling:	N/A	Auger Dep	oth:	10'	Driller:	AEDC
$\overline{}$	Groundwater Depth After Drilling:		Rotary De			Geologist:	MDR

	Illinois Environmental Protection Agency	y					COMPANY, INC. NG BOREHOLE LOG
							Page 1 of 2
r in	CIDENT #: 2016-1089		BOREHOI	LE NUM	IBER:	SB-24	
	ME: S & S Infinite Group		BORING I	OCATI	ION:	15' E and 25'	N of the NW corner of the building
ITE AD	DRESS: 400 North East Adams Street						
ATE (TI	Peoria, IL 61603	_	RIG TYPE		_	ounted drill rig	
	ME STARTED: 7/26/17 8:00 AM IME FINISHED: 7/26/17 8:30 AM		DRILLING/ BACKFIL		Grout / C		•
DEPTH	SOIL AND ROCK	USCS	Sample	PID	Sample		REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	CLASS		(ppm)			Moisture, Penetrometer, etc.)
0	Concrete						
	Gravel/Sand Backfill	ОН					No odor or discoloration
1				0			·
	Brown/Black Silty Clay	CL					
2			}				ļ
~			90%	0	Grab	SB-24A	BETX, MTBE, PNA
3 -			3070	U	Giau	2.5'	BETA, WITEL, FINA
' —						2.3	
_, ⊢							
4		1		0			
_							·
5						SB-24B	BETX, MTBE, PNA
	Sand: Med-Large Grained	SP		11		5.0'	Slight Odor and Discoloration
6							<u> </u>
				2		İ	
			80%	0	Grab	SB-24C	BETX, MTBE, PNA
8] ""		0.00	7.5'	55171, 11152, 1111
~⊢	•	i				,	
9 -							·
"—							·
., -				0	•		
10							
11							
12							
	·		90%	0	Grab	SB-24D	BETX, MTBE, PNA
13						12.5'	
\dashv							· ·
14	·			0			•
\rightarrow	Brown fine-grained and coarse-grained sand	SP		ĭ]			
₁₅ - '	brown the-grained and coarse-grained sand	Sr					
OTES:	Stratification lines are approximate, in-situ transition between Composite of 5' section were sampled at the high The soil boring log continues on page 2				ter of the	sample	
	Manway / Surface Elevation:						
							A DD 6
	Groundwater Depth While Drilling:	, none	Auger Dep	oth:	25'	Driller:	AEDC

	Illinois Environmental Protection Agency		·· ·				COMPANY, INC.
						DRILLI	NG BOREHOLE LOG
T I	NCIDENT #: 2016-1089		BOREHOI	E NUM	RFR.	SB-24	Page 2 of 2
	AME: S & S Infinite Group		BORING I				N of the NW corner of the building
	DDRESS: 400 North East Adams Street		İ		_		
	Peoria, IL 61603		RIG TYPE			unted drill rig	
	TIME STARTED: 7/26/17 8:00 AM		DRILLING/				
	TIME FINISHED: 7/26/17 8:30 AM		BACKFIL		Grout / Co		T
DEPTH		USCS	Sample	PID	Sample		REMARKS: (Odor, Color,
(FEET) 15	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)
'3	01.						
_	Sand: Med-Large Grained	SP		_			ľ
16	. !			0			
_	_		:				
17	· ·						·
			90%	0	Grab	SB-24E	BETX, MTBE, PNA
18] '					17.5'	,
							,
19	1			0			•
· · ·							
	1						•
20	4		-				
_	-						
21							
				0			
	1			•			:
23	1		90%	0	Grab	SB-24F	BETX, MTBE, PNA
	i '		,,,,		0,40	22.5'	<i>BB17</i> 4, 1411 <i>BB</i> , 11471
24				J		22.3	
²⁴ —	-						
25							
	End of Boring	İ					
26	· I						•
			·				
27 —	`			İ	ľ		•
	·						
28	1	ľ	ľ	ľ	ľ		
_							
29			1				
		ł	l	ł	l		
30]						•
	Stratification lines are approximate, in-situ transition between s Composite of 5' section were sampled at the highest				er of the	sample	
	EOB 25' Dry Sand Manway / Surface Elevation:						
J 7	Groundwater Depth While Drilling:	None	Auger Dep	th:	25'	Driller:	AEDC
∇	Groundwater Depth After Drilling:	ŀ	Rotary De	nth.		Geologist:	GTR/MTK

	Illinois Environmental Protection Agency						COMPANY, INC. NG BOREHOLE LOG
		_					Page 1 of 2
	NCIDENT #: 2016-1089		BOREHO			SB-25	
	AME: S & S Infinite Group		BORING I	LOCATI	ON:	15' E and 5' l	N of the NW corner of the Building
SITE AI	DDRESS: 400 North East Adams Street		DIC TYPE		т		
DATE/I	Peoria, IL 61603 FIME STARTED: 7/26/17 8:30 AM		RIG TYPE DRILLING			unted drill rig	<u> </u>
	TIME STARTED: 7/26/17 8:50 AM		BACKFIL		Grout / C		
DEPTH		USCS	Sample	PID			REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	CLASS		(ppm)	_	1	Moisture, Penetrometer, etc.)
0	Concrete			18.8			
	Gravel/Sand Backfill	ОН					No odor or discoloration
, –	Grave/Journa Buckfiff	"		0			140 odor or discoloration
` -		┨		0			
	Brown/Black Silty Clay	CL					l .
² _		[1				
_	.	ł	80%	0	Grab		
3							
]					ļ.	
4 -	1	ļ		0]	:
·							
	1						
5 _							
_		ł					·
6		l					
				0			:
_	1						
	1		80%	0	Grab		
8 -	·		8078	Ů	Giau		
°—	}	1					
_							
9		1					
				0			
10							
_	Sand: Med-Large Grained	SP		ľ			
11 -		"					
· · —							
12							
		[80%	0	Grab	SB-25A	BETX, MTBE, PNA
13		1				12.5'	
							:
14				0			`
· · —	·	j i		۲			
15	` `					.=	
OTES:	Stratification lines are approximate, in-situ transition between Composite of 5' section were sampled at the higher The soil boring log continues on page 2				er of the	sample	
	Manway / Surface Elevation:		•				
J 7	Groundwater Depth While Drilling:	None	Auger Dep	oth:	20'	Driller:	AEDC
$\overline{\nabla}$	Groundwater Depth After Drilling		Rotany Da	nth·		Canlogists	: CTD/MTV
<u> </u>	Groundwater Depth After Drilling:		Rotary De	ptn:		Geologist:	GTR/MTK

	Illinois Environmental Protection Agency						COMPANY, INC.
						DRILLI	NG BOREHOLE LOG
	NCIDENT #: 2016-1089	_	BOREHOI	E NUM	BER:	SB-25	Page 2 of 2
	AME: S & S Infinite Group		BORING I				N of the NW corner of the Building
	DDRESS: 400 North East Adams Street						
	Peoria, IL 61603		RIG TYPE			unted drill rig	
	TIME STARTED: 7/26/17 8:30 AM		DRILLING/				
DEPTH	IME FINISHED: 7/26/17 8:50 AM SOIL AND ROCK	USCS	BACKFILI Sample	ב: PID	Grout / Co		REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	CLASS		(ppm)	-		Moisture, Penetrometer, etc.)
15							
	Sand: Med-Large Grained	SP					
16		Ů.		0			
·~—				v			
17 -							,
1′—		•				an aan	
_			90%	0	Grab	SB-25B	BETX, MTBE, PNA
18						17.5'	
_							·
19			1	0			
20 _							
	End of Boring 20'						·
21							
							·
_							
23							·
_				ĺ			
24							
25							•
²³ —	·						·
<u>,</u> _							
26	·						
]		
27	,				.		•
28							
29							•
				ł			
30	<u>-</u>				_		
	Stratification lines are approximate, in-situ transition between s Composite of 5' section were sampled at the higher				er of the	sample	
	EOB 20' Dry Sand Manway / Surface Elevation:					•	
57	Groundwater Depth While Drilling:	None	Auger Dep	th:	20'	Driller:	AEDC
∇	Groundwater Depth After Drilling:		Rotary De	nth:		Geologist:	GTR/MTK
•	Civanamater Depth Arter Drining.		Total y De	ru.		Georogist:	GIMMIK

APPENDIX F ANALYTICAL RESULTS

CORRECTIVE ACTION PLAN
S&S Infinite Group
Peoria, Illinois

Release Confirmation/Waste Characterization

	Location	WC-1	WC-2	WC-3	RC-1
	Date	11/21/2016	11/21/2016	12/16/2016	1/3/2017
	Depth				
Parameter	Tier I CUO				
Benzene	0.03	43.3	11.8	9.79	5.77
Ethylbenzene	13.0	146.0	41.8	45.8	33.1
Toluene	12.0	611.	171.	161.	103.
Total Xylenes	5.6	816.	234.	258.	187.
MTBE	0.32	ND	ND	ND	ND
Acenaphthene	570	ND	ND		ND
Acenaphthylene	30	ND	ND		ND
Anthracene	12,000	ND	ND		ND
Benzo(a)anthracene	0.9	ND	ND	,	ND
Benzo(a)pyrene	0.09	ND	ND		ND
Benzo(b)flouranthene	0.9	ND	ND .		ND
Benzo(g,h,i)perylene	160	ND	ND		ND
Benzo(k)flouranthene	9	ND	ND		ND
Chrysene	88	ND	ND		ND
Dibenzo(a,h)anthracene	0.09	ND	ND		ND
Flouranthene	3,100	0.061	ND		ND
Fluorene	560	ND	ND		ND
Indeno(1,2,3-c,d)pyrene	0.9	ND	ND		ND
Napthalene	1.8	2.44	0.343		3.85
Phenanthrene	280	0.09	ND		0.09
Pyrene	2,300	0.066	ND		ND

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Cle

BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.

ND -- Not Detected

Early Action - Soil

•	Location	1	2	3	4	5	6	7
	Date	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/6/2017	1/6/2017	1/6/2017
	Depth	3'	3'	Backfill	Backfill	3'	3'	7'
Parameter	Tier I CUO					_		
Benzene	0.03	ND	ND	1.37	ND	ND	ND	ND
Ethylbenzene	13.0	ND	ND	7.18	ND	ND	ND	ND
Toluene	12.0	ND	ND	29.6	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	39.	ND	ND	ND	ND
MTBE	0.32	ND						
Acenaphthene	570							
Acenaphthylene	30	1						
Anthracene	12,000							
Benzo(a)anthracene	0.9							
Benzo(a)pyrene	0.09							
Benzo(b)flouranthene	0.9							
Benzo(g,h,i)perylene	160							
Benzo(k)flouranthene	9							
Chrysene	88	1						
Dibenzo(a,h)anthracene	0.09							
Flouranthene	3,100						-	
Fluorene	560							
Indeno(1,2,3-c,d)pyrene	0.9							
Napthalene	1.8		,					
Phenanthrene	280	İ						
Рутепе	2,300							

Early Action - Soil

	Location	8	9	10	11	12	13	14	15	16	17
	Date	1/6/2017	1/9/2017	1/9/2017	1/9/2017	1/9/2017	1/9/2017	1/9/2017	1/9/2017	1/9/2017	1/9/2017
	Depth	7'	11'	11'	11'	11'	7'	7'	7'	7'	7'
Parameter	Tier I CUO										
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	12.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570		ND	ND	0.121	ND	ND	ND	ND	ND	ND
Acenaphthylene	30		ND	ND	0.165	ND	ND	ND	ND	ND	ND
Anthracene	12,000		ND	ND	0.063	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9		ND								
Benzo(a)pyrene	0.09		ND								
Benzo(b)flouranthene	0.9		ND								
Benzo(g,h,i)perylene	160		ND								
Benzo(k)flouranthene	9		ND								
Chrysene	88		ND								
Dibenzo(a,h)anthracene	0.09		ND								
Flouranthene	3,100	<u></u>	ND	ND	0.131	ND	ND	ND	ND	ND	ND
Fluorene	560		ND	ND	0.237	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.9		ND								
Napthalene	1.8		ND	ND	80.9	0.146	ND	ND	ND	ND	ND
Phenanthrene	280		ND	ND	0.657	ND	ND	ND	ND	ND	ND
Ругепе	2,300		ND	ND	0.167	ND	ND	ND	ND	ND	ND
Numbers not bold indicate BOLD & SHADING Ex	actual quantities, bucceeds the TACO T] - -	1		1	1		1	··	1	
ND Not Detected		Į.		·	<u> </u>	L	<u> </u>			<u> </u>	1

Early Action - Soil

	Location	18	19	20	21	22	23
	Date	1/9/2017	1/10/2017	1/10/2017	1/10/2017	1/10/2017	1/10/2017
	Depth	7'	7'	13'	13'	3'	3'
Parameter	Tier I CUO						
Benzene	0.03	ND	ND	0.0263	ND	ND	ND
Ethylbenzene	13.0	ND	ND	ND	ND	ND	ND
Toluene	12.0	ND	ND	0.132	ND	ND	ND
Total Xylenes	5.6	ND	ND	0.133	ND	ND	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND
Acenaphthene	570	ND					
Acenaphthylene	30	ND					
Anthracene	12,000	ND					
Benzo(a)anthracene	0.9	ND				_	
Benzo(a)pyrene	0.09	ND					
Benzo(b)flouranthene	0.9	ND					
Benzo(g,h,i)perylene	160	ND			·		
Benzo(k)flouranthene	9	ND					
Chrysene	88	ND					
Dibenzo(a,h)anthracene	0.09	ND					
Flouranthene	3,100	ND			1		
Fluorene	560	ND					
Indeno(1,2,3-c,d)pyrene	0.9	ND					
Napthalene	1.8	ND					
Phenanthrene	280	ND				I	
Ругепе	2,300	ND					
Numbers not bold indicate	actual quantities, bi	1					
BOLD & SHADING Ex	ceeds the TACO T	i.					
ND Not Detected							

Electronic Filing. Site Assessment Data Office 1/2/2025

Stage 1 - Soil

	Location	24A	24B	24C	24D	24E	24F	25A	25B
	Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
	Depth	2.5	5	7.5	12.5	17.5	22.5	12.5	17.5
Parameter	TEIR Î CUO								
Benzene	0.03	ND							
Ethylbenzene	13.0	ND							
Toluene	12.0	ND							
Total Xylenes	5.6	ND							
MTBE	0.32	ND							
Acenaphthene	570	ND							
Acenaphthylene	30	ND							
Anthracene	12,000	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	0.125	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	0.153	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	0.9	0.228	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	160	0.115	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	9	0.0771	ND	D	ND	ND	ND	ND	ND
Chrysene	88	0.199	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND							
Flouranthene	3,100	0.307	ND	ND	ND ·	ND	ND	ND	0.0506
Fluorene	560	ND							
Indeno(1,2,3-c,d)pyrene	0.9	0.102	ND	ND	ND	ND	ND	ND	ND
Napthalene	1.8	ND	ND	ND	ND	ND	0.333	ND	ND
Phenanthrene	280	0.162	ND	ND	ND	ND	ND	ND	ND
Pyrene	2,300	0.285	ND	ND	ND	ND	ND	ND	0.043

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.

BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.

ND -- Not Detected

APPENDIX G TACO CALCULATIONS

CORRECTIVE ACTION PLAN
S&S Infinite Group
Peoria, Illinois

Summary of Tier 2 Calculations S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089 02/20/18

Table 3

Tier 1 Objectives

		Benzei	ne		Toluene	;		Ethylbenzen	e	Total Xylene	\$		Naphthalene		MTBE	
Residential	Ingestion	12	$\neg \tau$	mg/kg	16,000		mg/kg	· 7,800	mg/kg	16,000		mg/kg	1,600	mg/kg	780	mg/kg
	Inhalation	0.8	. 1	mg/kg	650		mg/kg	400	mg/kg	320	_	mg/kg	170	mg/kg	8,800	mg/kg
Mig	ration Class 1	0.03	ı	mg/kg	12	,	mg/kg	13	i mg/kg	150	ļ	mg/kg	12	ı mg/kg	0.32	mg/kg
	ration Class 2	0.17	(mg/kg	29	- (mg/kg	19	f mg/kg	150	}	mg/kg	18	ı mg/kg	0.32	mg/kg
Industrial/Commercial	Ingestion	100		mg/kg	410,000		mg/kg	200,000	mg/kg	410,000		mg/kg	41,000	mg/kg	20,000	mg/kg
	Inhalation	1.60	- (mg/kg	650		mg/kg	400	mg/kg	320	Ī	mg/kg	270	mg/kg	8,800	mg/kg
Construction Worker	Ingestion	2,300		mg/kg	410,000		mg/kg	20,000	mg/kg	41,000		mg/kg	4,100	mg/kg	2,000	mg/kg
	Inhalation	2.20	(mg/kg	42	.3	mg/kg	58 .	I mg/kg	5.6	•	mg/kg	1.80	i mg/kg	140	mg/kg
Soil Saturation		580		mg/kg	290	ij	mg/kg	150	mg/kg	110	1	mg/kg	212.16	mg/kg	8,400	mg/kg

Tier 2 SSL Objectives

	Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	
Residential Ingestion	11.64	S-2	6,257	S-1	7,821	S-1	15,643	S-1	1,564	S-1	782.1	S-1
Inhalation	· 1.94 J	S-6	1/25/95/8/80/11.	S-4	111881888111	Ş- 4	111888888111.	S-4	246.63	S-4	Uzakkivazili.	S-4
Migration Mass-Limit Class 1	0.19 (S-28	38.45 1	S-28	26.92	S-28	384.54	S-28	5.38	S-28	2.69	S-28
Migration Class 1	0.073	S-17	44.11 (S-17	61.76	S-17	111488888111	\$-17	19.16	S-17	0.28	S-17
Industrial-Commercial Ingestion	104.06	\$-2	1,635,200	S-1	204,400	S-1	408,800	S-1	40,880	S-1	20,440	S-1
Inhalation	3.70	S-6	[[858288]]],	S-4	118888888811	S-4	[[]\$\#\$\$\#\$[][.	S-4	392.66	S-4	1/84384384/1.	4
Migration Mass-Limit Class 1	0.19	S-28	38.45 i	S-28	26.92	S-28	384.54	S-28	5.38	S-28	2.69	S-28
Migration Class 1	0.073	S-17	44.11 1	S-17	61.76	S-17	11144444111	S-17	19.16 I	S-17	0.28	S-17
Construction Worker Ingestion	2,258.21	\$-3	163,236	S-1	10,202	S-1	81,618	S-1	122,427	S-1	20,405	S-1
Inhalation	5.21 - 1	S-7	535.89	S-5	[[855586]]]	S-5	73.45 1	S-5	2.54 1_	S-5	249.86	Ş-5
Soil Saturation	1,322.01	S-29	1,168.82	S-29	749.91	S-29	601.63 1	S-29	212.16	S-29	10,221.04	S-29

all values are in mg/kg

Site Specific Value cannot exceed Soil Saturation Limit, otherwise Tier 2 Inhalation or Tier 2 Migration objectives are the Soil Saturation objective

Groundwater Contaminate Concentration Exceedances at Surface Water or Set Back Zone (mg/L)

	Giodilawate	· COMMITTEE	ate concentration	LACCECUAIL	ces at surface tra	tel of Set E	Jack Lone (mg/e)					
,,,,	Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	
Result	#DIV/0!	R-26	#DIV/0!	R-26	#DIV/0I	R-26	#DIV/0!	R-26			#DIV/0!	R-26
Surface Water Objective	0.86		0.6		0.014		0.36			Ī		

Version: 4/25/2016

Illinois Enviromental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

IEMA Incident # (6- or 8-digit):	2016-10	089	IEPA LPC # (10-digit): _	1430560114
Site Name: S & S Infinite Gro	oup, Inc DBA Dov	vntown 66		·
Site Address (not a P.O. Box):	400 North East	Adams		<u>.</u>
City: Peoria	County: `	Peoria	Zip Cod	e: <u>61603</u>
Leaking UST Technical File				
Tier 2 Calculation Information	n			•
Equation(s) Used (ex: S12,S17	7,S28): <u>\$5,6,7,8,</u>	9,10,17,18,19,2	0,21,22,24	· · · · · · · · · · · · · · · · · · ·
Equation(s) Used (ex: S12,S17 Contact Information for Individu			0,21,22,24	· · · · · · · · · · · · · · · · · · ·
			0,21,22,24	
Contact Information for Individu			0,21,22,24 Sand	•
Contact Information for Individu	ual Who Performed	Calculations:		,

- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

AT (ingestion)	=	Residential = 6	yr
		Con. Worker = 0.115	yr
AT (inhalation)	=	Residential = 30	yr
		Con. Worker = 0.115	yr
AT _c	=	70	yr
BW	=	Res. (NonCarcinogen) = 15	. kg
		Res. (Carcinogen) = 70	kg
		Con. Worker = 70	kg
C _{sat} =		Benzene = 1322.012	mg/kg
		Toluene = 1168.824	mg/kg
		Ethylbenzene = 749.906	mg/kg
		Total Xylenes = 601.626	mg/kg
		MTBE = 10221.038	mg/kg
		Naphthalene = 212.157	mg/kg
			mg/kg
			mg/kg
			mg/kg
			ma/ka

	=	3.048	m_
	=	3.048	Э
=	Benzene	= 0.000197775126141909	cm²/s
	Tolu	uene = 7.67193169192489E-05	cm²/s
	Ethylben	zene = 3.95299980402237E-05	cm²/s
	Xyle	enes = 2.61358477517448E-05	. cm²/s
	М	TBE = 8.82257978856706E-05	cm²/s
	Naphtha	lene = 1.22914273421043E-06	cm²/s
	•		cm²/s
			cm²/s
		•	cm²/s
			cm ² /s
	=	Toli Ethylben: Xyli M	= 3.048 = Benzene = 0.000197775126141909 Toluene = 7.67193169192489E-05 Ethylbenzene = 3.95299980402237E-05

1:	4	201		1000
Incident	#	ZU 1	10-	เมชษ

Incident # 2016-108	9		
C _w	=	Benzene = 0.1	mg/L
,		Toluene = 20	mg/L
		Ethylbenzene = 61.757	mg/L
į		Total Xylenes = 1093.865	mg/L
		MTBE = 0.28	
		Naphthalene = 19.162	
		• • • • • • • • • • • • • • • • • • • •	mg/L
1			mg/L
}			mg/L
		•	mg/L
d	_	3.883	m m
·	_	Residential = 30	
ED (inhalation of	-		yr
carcinogens)		Con. Worker = 1	<u>yr</u>
ED (ingestion of	=	Residential = 6	yr
noncarcinogens)		Con. Worker = 1	yr
ED (inhalation of	=	Residential = 30	yr
noncarcinogens)		Con. Worker = 1	yr
ED (ingestion of	=	Residential = 30	yr
groundwater)		Con. Worker = 1	yr
ED _{M-L}	=	70	yr
EF	=	Residential = 350	d/yr
		Con. Worker = 30	d/yr
F(x)	=	0.194	unitless
f _{oc}	=	0.0136	g/g
GW _{obj}	=	Benzene = 0.005	_mg/L
•		Toluene = 1	mg/L
		Ethylbenzene = 0.7	mg/L
		Total Xylenes = 10	mg/L
		MTBE = 0.07	mg/L
		Naphthalene = 0.14	mg/L
			mg/L
			mg/L
`			mg/L
		<u> </u>	mg/L
H'	=	Benzene = 0.23	unitless
		Toluene = 0.271	unitless
		Ethylbenzene = 0.324	unitless
		Total Xylenes = 0.271	unitless
		MTBE = 0.0241	unitless
		Naphthalene = 0.0198	unitless
			unitless
<u>i</u>	=	0.02	m/m
<u> </u>	=	0.3	m/yr
I _{M-L}	=	0.18	m/yr
IF _{soil-adj}	=	114	(mg-yr)/(kg-d)
IR _{soil}	=	Residential = 200	mg/d
30 11		Con. Worker = 480	mg/d

Di	=	Benzene	= 0.088	cm ² /s
		Toluene	= 0.087	cm²/s
		Ethylbenzene	= 0.075	cm²/s
		Total Xylenes =	0.0735	cm²/s
		MTBE	= 0.102	cm²/s
		Naphthalene =	0.0000075	cm²/s
				cm²/s
				cm²/s
			•	cm²/s
				cm²/s
D _w	=	Benzene = (0.0000102	cm²/s
		Toluene = (0.0000086	cm²/s
		Ethylbenzene = (0.0000078	cm²/s
		Total Xylenes = 0.		cm²/s
			0.000011	cm²/s
		Naphthalene = (0.0000075	cm²/s
		•		cm²/s
				cm²/s
				cm²/s
				cm²/s
DF	=	1.6696869	986	unitless
ED (ingestion of	=		:	уг
carcinogens		Con. Worke	r = 1	yr
K₀c	=	Benze	ene = 50	cm³/g or L/kg
		Toluer	ne = 158	cm³/g or L/kg
		Ethylbenzer	ne = 320	cm³/g or L/kg
·	•	Total Xylene		cm ³ /g or L/kg
		MTBI	E = 11.5	cm ³ /g or L/kg
		Naphthaler	ne = 500	cm³/g or L/kg
		,		cm ³ /g or L/kg
				cm ³ /g or L/kg
		:	ŧ.	cm ³ /g or L/kg
12		1000		cm ³ /g or L/kg
K _s		1830		m/yr
L	=	12.192		m
PEF	=	· · · · · · · · · · · · · · · · · · ·		m³/kg
PEF'	=	Booidantial -	60.04	m ³ /kg
Q/C (VF equations)	=	Residential = Con. Worker =		(g/m²-s)/(kg/m³) (g/m²-s)/(kg/m³)
Q/C (PEF equations)	-	. Con. vvoiker -	- 00.01	(g/m ² -s)/(kg/m ³)
RfC (mg/m ³)		Chronic	Sub	chronic
Benzene	=	0.03).08
Toluene	=	5	•	5
Ethylbenzene	=	1		9
Total Xylenes	=	0.1		0.4
MTBE	=	3	•	2.5
Naphthalene	=	0.003	0.	.003
•	=	•	1	NA
	=	•		NA
	=			NA
	=	•		NA I
	-	<u> </u>		47.3

Incident # 2016-1089

IR _w	=	Residential = 2	L/d
K	=	31.536	m/yr
K₀(non-ionizing	=	Benzene = 0.68	
organcis)		Toluene = 2.1488	cm²/g or L/kg
3 ,		Ethylbenzene = 4.352	cm²/g or L/kg
		Total Xylenes = 5.4128	cm²/g or L/kg
		MTBE = 0.1564	cm²/g or L/kg
		Naphthalene = 6.8	cm²/g or L/kg
I			cm²/g or L/kg
			cm²/g or L/kg
		/	cm²/g or L/kg
M. Carleton annual and			cm²/g or L/kg
K _d (ionizing organics)	=	_ 	cm²/g or L/kg
K _d (inorganics)	=		cm²/g or L/kg
VF' =		Benzene = 477.089	m³/kg
	To	oluene = 766.007	m³/kg
		/lbenzene = 1067.141	m³/kg
		al Xylenes = 1312.403	m³/kg
		ITBE = 714.311	m³/kg
Napl	ntha	lene = 6051.797	m³/kg
			m³/kg
			m³/kg
			m ³ /kg
			m³/kg
VM _{M-L} =		#VALUE!	m³/kg
1111-2		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m³/kg
			m³/kg
			m ³ /kg
			-
\ /F!			m ³ /kg
		#VALUE!	m³/kg
		#VALUE!	m³/kg
		#VALUE!	m³/kg
		#VALUE!	m³/kg
		#VALUE!	m³/kg
		#VALUE!	m³/kg
			m³/kg
			m ³ /kg
			m³/kg
			m ³ /kg
ŋ		0.201	L _{pore} /L _{soil}
$\frac{\theta_a}{\theta_a}$	_	0.109	L _{air} /L _{soil}
<u>~a</u>			-air -soii_

			
RfD _o mg/(kg-d)			ochronic
Benzene	=		0.012
Toluene	=	0.08	0.8
Ethylbenzene	=	0.1	0.05
Total Xylenes	=	0.2	0.4
MTBE	=	0.01	0.1
Naphthalene	=	0.02	0.6 0.6
	=		NA
	=	•	NA
18	=		NA
S	=	Benzene = 1800	
		Toluene = 530	•
		Ethylbenzene = 170	-
		Total Xylenes = 110	- '
		MTBE = 51000	•
		Naphthalene = 31	•
,		•	mg/L
		•	mg/L
			mg/L
			mg/L
SF _o	=	Benzene = 0.055	(mg/kg-d) ⁻¹
		Toluene = NA	\ (mg/kg-d) ⁻¹
		Ethylbenzene = 0.011	(mg/kg-d) ⁻¹
		Total Xylenes = NA	\ (mg/kg-d) ⁻¹
		MTBE = NA	(mg/kg-d) ⁻¹
	•	Naphthalene = NA	(mg/kg-d) ⁻¹
			(mg/kg-d) ⁻¹
			(mg/kg-d) ⁻¹
		:	(mg/kg-d) ⁻¹
		•	(mg/kg-d) ⁻¹
T	=	Residential = 9.5E08	S
		Con. Worker = 3.6 x 10 ⁶	\$
T _{M-L}	=	30	yr
THQ	=	1	unitless
TR	=	1.00E-06	unitless
U _m	=	4.69	m/s
URF	=	Benzene = 7.8 x 10 ⁻⁶	(µg/m³) ⁻¹
Ut	=	11.32	m/s
V	=	0.5	unitless
VF =		Benzene = 6214.753	
		Toluene = 9978.318	m³/kg
		Ethylbenzene = 13901.009	I
		Total Xylenes = 17095.878	· · · · · · · · · · · · · · · · · · ·
		MTBE = 9304.904	, I
•		Naphthalene = 78833.093	2 T
		:	m³/kg
			m³/kg
		:	m ³ /kg
		> -	m ³ /kg
	_		III /Ng

Incident # 2016-1089

111010011(7/2010			
θ _w	=	0.092	L _{water} /L _{soil}
ρ _b	=	2.15	kg/l or g/cm ³
ρ _s	=	2.69	g/cm ³
ρ _w	=	1	g/cm ³
1/(2b+3)	=	0.09	unitless

Illinois Enviromental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

Site Identification				
IEMA Incident # (6- or 8-digit):	2016-10	89	IEPA LPC # (10-digit):	1430560114
Site Name: S&S Infinite Grou	p, Inc DBA Downte	own 66		
Site Address (not a P.O. Box):	400 North East Ad	lams		
City: Peoria	County:	Peoria	Zip Code:	61603
Leaking UST Technical File				
Tier 2 Calculation Information				
Equation(s) Used (ex: R12,R14,	R26): R16, R17, F	R18,R19, R21, R2	2, R23, R24,R26	
Contact Information for Individua	Il Who Performed Ca	alculations:		
CWM Company, Inc.,				
Land Use: Residential		Soil Type	: Sand	
Groundwater: X Class I		Class II		
Mass Limit: Yes	No If	Yes, then Specify	Acreage:	
Objective from S17 used in R26	?	X No		
If Yes, then	Specify C _{source} from	S17 :	See Attachedmg/L.	
Mass Limit Acreage other than Failure to use site-specific pare Maps depicting source width, p Inputs must be submitted in the	meters where allowe lume dimensions, dis	ed could affect pay		

AT _c	=	70	yr
AT _n	=	Residential = 30 Con. Worker = 0.115	yr yr
BW	=	70	yr
C _{source}	=	See Attached	mg/L
C _(x)	=	See Attached	mg/L
d	Ξ	100	cm

D ^{air}	_ =	See Attached	cm²/s		
D _{water}		See Attached	cm²/s		
D _s ^{eff}	=	See Attached	cm²/s		
ED	_	Residential = 30	yr		
		Con. Worker = 1	yr		
EF	=	Residential = 350	d/yr		
		Con. Worker = 30	d/yr		

erf	=	See Attached	unitless
f∞	=	0.0136	9/9
GW _{comp}	=	See Attached	mg/L
GW _{source}	=	See Attached	mg/L
H'	=	See Attached	cm3 _{ware} /cm ³ er
i	=	0.02	cm/cm
1	=	30	cm/yr
IR _{etr}	=	20	m³/d
	=	Residential = 100	mg/d
(R _{sol}	_	Con. Worker = 480	mg/d
IR _w	=	Residential = 2	L/d
К	_	8.640	cm/d
	_	3153.600	cm/yr
K _{oc}	=	See Attached	cm³/g or L/kg
K _e (non-tonizing organics)	=	See Attached	cm³ _{water} /g _{soil}
K ₈ (ionizing organics)	=	Not Applicable	cm3 _{water} /g _{soil}
K _e (inorganice)	=	Not Applicable	cm³ _{water} /g _{soil}
L _a	=	100	cm
LF _{ew}	=	See Attached	(mg/L _{max})/(mg/kg _{tot})
М	=	0.5	mg/cm ²
Pe	=	6.9 · 10 ⁻¹⁴	g/cm²-s
RAF _d	Ξ	0.5	unitless
α _x	=	See Attached	cm
a _y	=	See Attached	cm
a,	=	See Attached	cm
λ	=	See Attached	d ⁻¹
π	=	3.1416	
		9.46 · 10 ⁸	

RAF _d (PNAs)	=	0.05	unitless
RAF _d (inorganics)	=	0	unitless
RAF.	=	1	unitless
RB\$L _{air} (cardnoginic)	=	See Attached	µg/m³
RBSL _{atr} (noncardinogínic)	=	See Attached	µg/m³
RfDi	=	See Attached	mg/kg-d
SA	=	3,160_	cm²/d
Sd	=	200.0	cm
S _w	=	640.1	cm
SF,	=	See Attached	(mg/kg-d) ⁻¹
SF.	=	See Attached	(mg/kg-d) ⁻¹
THQ	=	1	unitless
TR	=	1.00E-06	unitless
Ų	=	0.6912	cm/d
U _{air}	=	225	cm/s
Ugw	=	3153.620	cm/y
VFp	=	3.97133E-12	kg/m ³
VF _{samb}	=	See Attached	(mg/m³ _w)/mg/kg _{va} or kg/m
VF ₆₈	=	See Attached	kg/m3
W	=		cm
w	=	0.094	gwater/gooil
δ _{αίτ}	=	200	cm
δ _{gw}	=	200	cm
θ ₂₃	=	0.0479	cm ³ _{sir} /cm ³ _{sod}
θ,,,,	=	0.2021	cm³ _{water} /cm³ _{sod}
θτ	=	0.25	cm ³ /cm ³ _{soil}
ρь	=	2.15	g/cm ³
ρ,,	=	1	g/cm ³

	H'	λ	Koc
Benzene	0.23	0.0009	50
Toluene	0.271	0.011	158
Ethylbenzene	0.324	0.003	320
Total Xylenes	0.271	0.0019	398
MTBE	0.0241	0	11.5
Naphthalene	0.0198	0.0027	500
	ļ		
	i	1	

		Benzene R2	Modeled G	roundwater f	rom Vertical I	Modeled Soil	s	
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a, (cm)	a, (cm)	erf: S _* / (4 · √(a, · X))	erf: S _w /(2 · √[a₂ · X])
SB-A	0.099	0.005	1981.2	198.12	66.04	9.906		0.87606419
backfill 3	0.093	0.005	1950.72	195.072	65.024	9.7536	0.47483982	0.88182975
WC-1	2.948	0.005	4541.52	454.152	151.384	22.7076	0.21509171	0.49786925
WC-3	0.666	0.005	3322.32	332.232	110.744	16,6116		0.64108327
							-	
							 	
							-	

			Benzene R	26 Modeled (3roundwater		
Location	C(x) (mg/L)	X (cm)	a* (cw)	a _y (cm)	a _z (cm)	erf: S., /(4 · · · /(a, · XI)	enf: S., / (2 √[α, · X])

	Toluene R26 Modeled Groundwater from Vertical Modeled Soils											
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S ₊ / (4 · · · · √[a ₊ · X])	erf: S _{**} / (2 · √[a₁ · X])				
SB-A	2.3579	0.9675	60.96	6.096	2.032	0.3048	1	1				
backfill 3	0.6711											
WC-1	13.8528	0.9515	213.36	21.336	7.112	1.0668	0.99999999	1				
WC-3	3.6502	0.6916	121.92	12.192	4.064	0.6096	1	1				
							↓					

			Toluene R	26 Modeled G	roundwater		
Location	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a² (cw)	erf: S _w / (4 · √[α _y · X])	erf: S _a / (2 · √[a, · X])
						<u> </u>	
		-					
	 - 					<u> </u>	
	 						
	 -						
	 					-	
	 						
	 						

	Et	hylbenzene R	26 Modeled	Groundwate	r from Vertica	al Modeled S	olis	
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a* (cw)	a _y (cm)	a _z (cm)	erf: S _# / (4 · √[a _y · X])	erf: S _w / (2 √[a₂ · X])
SB-A	0.5815							
WC-1	1.6549	0.6304	243.84	24.384	8.128	1.2192	0.99999963	1
WC-3	0.5191							
							 	
							 	
								
						 -	 	-
	 							
						L		

Ethylbenzene R26 Modeled Groundwater											
Location	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a² (cw)	√[a,·X])	√[a₂ · X])				
											
	├───										
	 										
	 										
											
											
	 										
											

	To	otal Xylenes f	R26 Modeled	Groundwate	r from Vertic	al Modeled S	oils	
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S _w / (4 · √(a _v · ×1)	erf: S ₊ / (2 · √[o₂ · X])
SB-A	4.1138						 	
backfill 3	0.3565						1	
WC-1	7.4598							
WC-3	2.3586		-					
-								
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							<u> </u>	
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				بہ				
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				ļ		<u> </u>		
				<u> </u>	<u> </u>	L		

			Total Xylene:	s R26 Modele	d Groundwa	ter	
Location	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S _{**} / (4 · √[α, · X])	erf: S _w / (2 · √[a₂ · X])
	 			<u> </u>			
	 			-			
							
	 				 -		
	 					 	
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	N	aphthalene R	26 Modeled	Groundwate	r from Vertica	I Modeled S	oils	
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _r (cm)	a _y (cm)	a, (cm)	erf: S _w / (4 ⋅ √[α _y ⋅ X])	erf: S _e / (2 · √[a₂ · X])
11	0.5910	0.1374	426.72	42.672	14.224	2.1336	0.99632439	1
WC-1	0.0178	00.	120.12	72.572		2	0.00002.00	
<u> </u>	0.01.0				 		+	
					 		_	
								
								
								
					 		 	
							+	
							 	
					-		1	
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					1			
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			Naphthalene	R26 Modele	d Groundwat	er		
Location	C(x) (mg/L)	X (cm)	a _x (cm)	α _y (cm)	az (cm)	erf: S _w /(4 · √[a _y · X])	erf: S ₊ / (2 · √(a, · X))	
							,	
								l
								ı

Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S _w / (4 ⋅ √(α _γ ⋅ X))	erf: S _w / (2 √[a₂ · X])
SB-8(2-4')	0.0000							
							1	
				[·				
				L				
				L				
							l	

Location	C(x) (mg/L)	X (cm)	a _x (cm)	a, (cm)	a _z (cm)	erf: S _w / (4 ⋅ √[a _y ⋅ X])	erf: S _w / (2 √[a, · X])
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			· · · —				
	 						
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Leadier	C _{source} from S17 (mg/L)	C(x) (mall)	Y (cm)	a (cm)	a (cm)	a (cm)	erf: S _w /(4 ·	erf: S, / (2
Location	317 (HIg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	az (cm)	√[a _y · X])	√[a, · X])
SB-4 (2-4')	0.0000			ļ.——.				
SB-5(2-4')	0.0000						ļ	
SB-14(2-4')	0.0000			<u> </u>				
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ocation	C(x) (mg/L)	X (cm)	a* (cw)	a, (cm)	az (cm)	erf: S., / (4 · √[α, · X])	erf: S _{**} / (2 · √[a ₂ · X])
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Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S _w / (4 · √[a _y · X])	erf: S _w / (2 ⋅ √[α ₂ ⋅ X])
SB-5(2-4')	0.0000							
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Location	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: s ₊ /(4 · √(a ₇ · X)	erf: S _w / (2 √[α _z · X])
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S. & S. Difinite Group, Inc. - DBA Downtown 66 2016-1

	It is four front ambienties of mortal land								
	Location / (Fourtier 9-1)	GWC_/DF	1 form 20 45 cm	R-18: 9 - 0.10 - X	R:17: p p./3		R.18: p.e.g./20	Tem 1. (2.0.)	Ten 7 - 11 - 508T1 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -
	J	J	X (B) X (cm)	5	a (cm) / 3	9,6	/ 20 • (Ca)	-	-
á	1,48 / 0,734 - 1,988	1,988 / 20,000 • 0,09339	65 1981.2	01 , 19812 - 198,12	198.12 / 3	• GE 04 198.12	/ 20 - 9,906 1981.2	/ 2 : 19912 •	1 . SCRT 1 .1 4 x 0,0009 x 198,12)/ 0,69170 0,4764
ğ	137 / 074 • 1,653	-	1990 72	١	165072 / 3	55.074 195.072	٤	~	SORTI 1 +1 4
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Semple					3	ERF(B,) ERF(B,)		Compared to the second of the second	
9		COKING AD		P. 8,7(7° SGRTp, 'X)	250	Section 742 APPENDER C:			
	3, /(4 s SORT (4 ·	١	SORT (r x ≫• β₂	Tobb G		(Har . 'Am') . ERF(B.) . ERF(B.)	· mot
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& S Infinite Group, Inc. - DBA Downlown 66

Semple	Sample County 1 force 10 48 cm		8.17. 0.00.(3	871.000.00	Tem 1. • [K/G.4]]		Tem T = (1 . SOBT) + (4 . t . c) / OA)
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Someth Location	 - -	A. e. S. 441 SORTH. TO		(K47802.51.2.4)		ERF(B) ERF(B)	Co. Co. x o(-1.1-2 an(0.) a er(0.)
	z J	4 : SORT (9	. ×	S, /(2 "50AT (. x ». B	Section 742 APPENDIX C: Table 6	Com. 10 (10) (-1) 1 ERE(B.) 1 ERE(B.) 0 mg/L
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S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

Must for R-32 Caccustoms

TOLUCIEN MATTER FOR VETTICAL SOIL MODELING AND R-35 MODELING OF VETTICAL MODELED SOIL IAMERIMMA IA)

Sample		ontamination (Equation)		ing point)		GW C_/D	e		ersion: 30 48 cm		R-16: a, = (.10 · X	$\neg \Gamma$		R-17: c	L+Q/3		T	R-18: a	• Q./20			⊤te	:m 1" ● []	((6,4)		1			Terr	n2 = (1	- SORTII	· (4 · A · o.	1/000			\neg
		ricquisi	V.DI	-	c .		• GW _{mt} (mg/L)						m)					o. (em)			o. (cm)	×	-	, ,	Δ.	• Tem	1 1 .	\$09T							U	10 70	
SBA	104	/ 2.705	•		47,158	/ 20,000	• 2.15792	7	60.96	0.1	60 96	. 6.00	~	6.096	, 	-	• 2,002	6.098		20 •	0.3048	6096		; ;	6.096	• 6	1 .	SORT	- i		4	. 001		3 098 1/	0 69120	10 4	1702
Inchia 3	29.6	2.205	•	13.422	13 422	/ 20,000	· 0.67510			-			\neg	n 1-A		·																					
WC-1	611	1 2 205	•	277.058	277.058	/ 20,000	13.65280		213.38	0.1	. 2133	• 21.3	4	21 330	7	,	• 7,112	21,336	,	20 ·	1.0668	213.38	$\overline{}$	7 .	21.338	• 6	1 .	SORT	1	•(4	E 00)	_ *	1.336)	0.69120	1. 0/	5350
WC3	161	/ 2.205	•	73.005	73,005	/ 20 000	· 3.65025	4	121.92	o.	a 121.9	• 12.1	2	12,192		,	- 4.064	12,192	- /	20 •	0.6096	121,92	,	2 ,	12.192	• 6	1 .	SORT		+1	4	. 001	1 . 1	2.192)	0.69120	. 4	3327
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Sample Location						g.s												B ₂ = S ₂ /									ERF(B)							ef(B)			
		8.	7(4		\$QR1	т (4	×	X))•	•	ß	8	/(2	: SQ	₹ (X)) <u>•</u>	_B_	Tol	ole G	C,	10	1422		4:	٠,	ERF(B ₁)	z ERF(B)	•	mg/L
S9-A	84	40 08	"	4	•	SOR	T (633	×	60 96		• 10	4.37772	304 8	- 11	,	SO	1	0.3	048	. 6	0.98)) •	15.15534	1 000000	1.000000	2.35792				4116	_	1.0000000	1.00000	0 -	0.86753
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WC-3	64	40.08	71	4		SOR	1 (_4	064	_•_	121,8	2 <u>))•</u>	• 7	7.16888	3048	_//.	2	 	RT (06	096	×12	197_))•	17,67767	1,000000	1,000000	3 65025	× 0			43327		1.000000	1.00000	• •	0.69160
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	3 3	CW (mp/L)	X (Cm)	5	G, (Cm) / 3	Q (ET)	• q,(cm) q,(cm) / 20 • q,(cm)	X / 2 1 Q • Temi'	1 · SORT[1 · (4 t k a 0,)/ U] • Term 2"
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Semple	Sample C. • (soil contamination of modeling point)	GWC./0F	Convertion:	8:18	R.17; p. n. 13		R-18: Q - Q / 20	Tem 1. • [K.O.43]	Tem 7 * (1 · 50RT) • (4 · 1 · 0.) (U)
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C. 100 J. 70000 . 0.044(regis) K(0, X(cm) 0.1	Cocation	Sample C. • (soil contamination at modeling point) Location / (Equation 5-17)	GW. C. / DF	Correction: 1 foot = 30 48 cm	R-16: 0, = 0.10 · X	R-17: q. e.q.(3)	Ш	-	Tem 1 (4.0. a.)	Tem 2" = (1 - 50RT 1 - (4 : 1 : 11/10))	
*** **********************************	1980	0013 / 51680 043 - 0,000	/ DP - GW(mg/L)	X(fl) X (cm)	0.1 • X (cm) a, (cm)		g, (tm)	g (cm)	, 3 , 9,), (A : A), (le Tem Z
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Tier 2 Industrial/Commercial Calculations for Benzene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

Date Compiled: 02/20/18 Version: 4/25/2016

lolcomb's f	Bulk Density → 0	Converted	Value to be used in	r calculation sheet>	-	USDA Soil Classification: Se	and			
Organi	ic Matter (%)> 0	FOC % (0.58 conversion)	0.000	Organic Matter (mg/kg)	0	FOC mg/kg (0.58 conversion)	0.000	foc conversion to g	/g: 0.000	Т
2.150 ρ	b - Dry Soil Bulk Density			1.5 or; Gravel = 2.0; San	d = 1.8; Sift	= 1.6; Clay = 1.7; or Site Specific		-		
2.69 ρε	s - Soil Particle Density			12.65 or, Site Specific						
0.109 Θ,	o . Air Filled Soil Porosity	0.109	Value from S-21	Top 1 meter = 0.28; beto	w 1 meter =	0.13; Gravel = 0.05; Sand = 0.14; Silt	=0.24; Clay	= 0.19; or Calculated Valu	ie (S21)	
0.092 ⊖	w - Water Filled Soil Porosity	0.092	Value from S-20	Top 1 meter = 0.15; belo	w 1 meter =	0.30; Gravel = 0.20; Sand = 0.18; Sitt	=0.16; Clay	= 0.17; or Calculated Value	e (S20)	
0.201 η	- SSL: Total Soil Porosity	0.201	Value from S-24	0.43 or, Gravel - 0.25; Sa	and = 0.32; \$	Sift = 0.40; Clay = 0.36; or Calculated	Value (S24)			
0.02 1 -	- Hydraulic Gradient			Site Specific						
	oc - Total Organic Carbon (g/g)					I = 0.002; or Site Specific				
	OF - Dilution Factor	1.670	Value from S-22		is less than	20, then 20 default is used, else cald	ulated value	is used		
	I - Mixing Zone (m)	3.884	Value from S-25	2; or calculated value						
	1, - Depth of source (m)		feet = 10	Depth of Source (Vertica						
	(- Hydraulic Conductivity (m/yr		1.00E-04		.64E+00	1 cm/d 3.15E+031 cm/yr U:	se cm/d for F	R15, R19, & R26, cm/yr fo	r R24	
	 Source Length Parallel to Gr 	roundwater Flow (m)	feet = 40	Site Specific (m)						
	l _a - Aquifer Thickness (m)		, feet = 10	Site Specific (m)						
	- Infiltration Rate (m/yr)			0.3 for Illinois						
1830 K	🕻 - Saturated Hydraulic Condu	ctivity		See Table K for Input Va	lues					
	SW _{obj} - Groundwater Remediati	ion Objective Class 1		0.025 GW _{ob}	- Groundwa	ter Remediation Objective Class 2				
	I/(2b+3) - Exponent for S20		,	See Table K for Input Va						
	BW - Body Weight				genic); 15 (non-carcinogenic); Industrial/Commer	clat = 70; Co	nstruction Worker = 70; R	BCA = 70	
114 IF	Feed-adj -Age Adjusted Soil Inges	stion Factor for Carcinogens		114						
50 IF	R _{coll} -Soil Ingestion Rate			Residential = 200; Indus	lrial/Comme	rcial = 50; Construction Worker = 480				
0.055 S	SF _o -Oral Slope Factor			Benzene = 0.055				,		
1 IF	R., -Daily Water Ingestion Rate)		Residential = 2; Industria	VCommerci	al = 1				
1800 S	S - Solubility in Water			Benzene = 1750	•					
.0E-06 T	TR - Target Cancer Risk			Residential = 10 ⁻⁶ ; Indus	trial/Comme	rcial = 10 ⁻⁶ ; Construction Worker = 10	at point of	human exposure		
70 A	AT _c -Average Time for Carcino	gens .		170		•				
	URF - Inhalation Unit Risk Fact			Benzene =7.8 x 10 ⁻⁶						
	EF - Exposure Frequency	-			trial/Comme	rcial = 250; Construction Worker = 30				
25 E	ED - Exposure Duration for Inha	alation fo Carcinogens		Residential = 30; Industr	lal/Commen	ial = 25; Construction Worker = 1				
68.81 Q	Q/C - Inverse of the mean conc	entration at the center of a squa	are source			nercial = 85.81; Construction Worker =				
	T - Exposure Interval			Residential = 9.5 x10 ⁸ ; to	ndustrial/Co	nmercial = 7.9 x 108; Construction We	orker = 3.6 x	10 ⁶		
30 T	T _{ML} - Exposure Interval for Mall	I Limit Volatilization Factor Equa	ation S26	30						
		ation to Groundwater Mass-Limit Eq		70						
0.18	- Infiltration Rate for Migration	on to Groundwater Mass-Limit E	Equation S28	0.18						
0.088	D _i - Diffusivity in Air			Benzene = 0.088						
0.23 H	H' - Henry's Law Constant			Benzene = 0.228						
	D Diffusivity in Water	•		Benzene = 9.8 x 10 ⁻⁸						
	K _{oc} - Organic Carbon Partition (Coefficient		Benzene = 58.9						
ustrial/Cor	mmercial Ingestion Tier II Be	nzene Objective BW x AT _c x 365	_ 1.0E-06	x 70 x	70	x 365		_ 1.8E+00		
				× 70 x		x 365				

1	Industrial/Commercia	Il Ingestion Tier II Benzene Objective														
	6.3 -	TR x BW x AT _e x 365	- _	1.0E-06	x	70	x	70	×	365			1.8E+00	_	104.058	mg/kg
	3-3 =	Sfox 10 ⁸ x EF x ED x IRsoil		0.055	×	1.00E-06	х	250	×	25	×	50	1.72E-02	-	104.030	'''9'''9

Construction	n Worker In	gestion Tier II Benzene Objective											
62-		TR x BW x AT _e x 365	 1.0E-06	x	70	x	70	x	365	_ 1.8E+00	_	2258.21	maika
3-3 -	7	Sf _o x 10 ⁶ x EF x IRsoil	 0.055	х.	1,00E-06	×	30	×	480	7.92E-04	-	2230.21	mg/kg
1													

Tier 2 Industrial/Commercial Calculations for Benzene S & S Infinite Group, Inc. - DBA Downtown 68 2016-1089

Construction Worker I	nhalation Tier II Benzene Objective									_			-				
S-6 =	TR x ATc x 365	_ = -	1.0E-06	х	70	х	365						=	0.02555	=	3.704	mg/kg
10-0-	URF x 1000 x EF x ED x 1/VF		7.80E-06	x	1000	x	250	×	25	>	(1/	7.07E+03)	_	6.90E-03	_	0.104	···g/kg
i																	

RESIDENTIAL OR COMMERCIAL

S-8 = VF =
$$\frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^4}{(2 \times \rho_b \times D_A)}$$
 = 85.81 $\times \frac{(3.14 \times 1.98E-04 \times 7.90E+08)^{1/2} \times 0.0001}{(2 \times 2.15 \times 1.98E-04)}$ = $\frac{6.0104}{0.0009}$ = 7067.4376

Equation for Derivation of Apparent Diffusivity
$$S-10 = D_A = \frac{(\theta_0^{3.33} \times D_1 \times H) + (\theta_0^{3.33} \times D_m)}{\eta^2} \times \frac{1}{(\rho_0 \times K_d) + \theta_m + (\theta_0 \times H)}$$

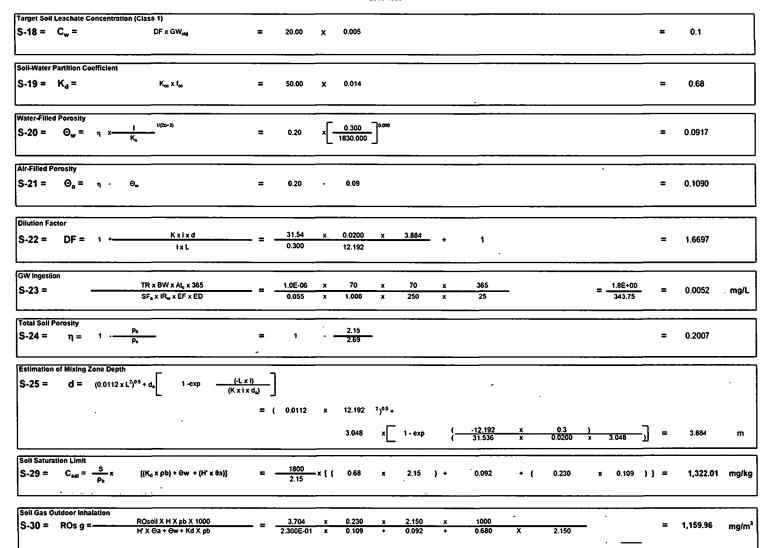
$$= \frac{(6.23E-04 \times 0.088 \times 0.230) + (0.0004 \times 1.02E-05)}{0.0404} \times \frac{1}{(0.0004 \times 0.088)} \times \frac{$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)
$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_o \times H')}{\rho b} \right] = 0.1 \times \left[0.68 + \frac{(0.092 + 0.109 \times 0.230)}{2.15} \right] = 0.073 \text{ mg/kg}$$





Tier 2 Industrial/Commercial Calculations for Benzene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089





Tier 2 Industrial/Commercial Calculations for Toluene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

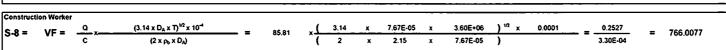
SSL SSL & RBCA

Date Compiled: 02/20/18

Version: 4/25/2016

	RBCA	IRIS/HEAST										Ven	sion: 4/25/	2016	
Input Value	s 's Bulk Density -> 0	Converted Value	to be used in	ole delle e	ahaat b			USDA Soil Class	(Capitani C	Cond Cond					
	anic Matter (%)> 0	FOC % (0.58 conversion)>	0.000		: Matter (mg/l	ka) 0	_	FOC mg/kg (0.58 or		0.000	fo	c conversion t	o u/o:	0.000	
	Pb - Dry Soil Bulk Density	1 CO 20 (C.CC CONTENSION)	0.000					lay = 1.7; or Site S		0.000	<u>`</u>	0 0011101111	O grg.	0.000	
	ps - Soil Particle Density				Site Specific		31K - 1.0, C		prome						-
	O Air Filled Soil Porosity	0.109 Valu	e from S-21				r = 0.13; G	ravel = 0.05; Sand	l = 0.14; Si	it =0.24; Clay =	0.19; 0	Calculated V	alue (S2	1)	
0.092	Ow - Water Filled Soil Porosity	0.092 Valu	e from S-20					ravel = 0.20; Sand							\neg
0.201	η - SSL: Total Soil Porosity	0.201 Valu	e from S-24					0; Clay = 0.36; or							
0.02	i - Hydraulic Gradient			Site Spec										· -	
0.014	foc - Total Organic Carbon (g/g							2; or Site Specific							
20.000	DF - Dilution Factor		e from S-22				han 20, the	n 20 default is use	ed, else cal	<u>lculated value is</u>	s used				
3.684	d - Mixing Zone (m)		ie from S-25 = 10		ulated value	e rtical thickne		mination)							
	d Depth of source (m)		E-04	Site Sper		8.64E+00		•	1 li	lan a=14.4aa 0 4	E 040	0 DOC	· (a a E) 24		
31.54 12.192	K - Hydraulic Conductivity (m/yo L - Source Length Parallel to G		1 = 40	Site Sper		8.04E+00	CHVO	3.15E+03	or cm/yr je	Use cm/d for R1	3, K 19.	a rczo. cneyi	101 FC24		-
3.048	d Aquifer Thickness (m)		l = 10	Site Spec											
0.3	I - Infiltration Rate (m/yr)	. 100	- 10	0.3 for illi									_		-
1830	K Saturated Hydraulic Condu	etivíty			e K for Inpu	t Values									-
1,000	GWood - Groundwater Remediat						dwater Rem	nediation Objective	Class 2						
0.090	1/(2b+3) - Exponent for S20				e K for Inpu										
15	BW - Body Weight	• .					5 (non-care	inogenic); Industr	iaVComme	ercial = 70; Cons	struction	Worker = 70:	RBCA :	= 70	
114	IF collecti - Age Adjusted Soil Inge	stion Factor for Carcinogens		114											
50	IR _{soll} -Soil Ingestion Rate			Resident	lal = 200; In	dustrial/Com	mercial = 5	0; Construction W	orker = 48	0				-	
1	IRDaily Water Ingestion Rate					strial/Comm							-		-
530	S - Solubility in Water			Toluene										-	
1.0E-06	TR - Target Cancer Risk			Resident	ial = 10 ⁻⁶ : Ir	ndustrial/Com	mercial = 1	0°; Construction	Worker = 1	0 ⁻⁶ at point of h	uman e	xposure			
250	EF - Exposure Frequency	• • •		Resident	ial = 350; In	dustrial/Com	mercial = 2	50; Construction \	Worker = 3	0					
25	ED - Exposure Duration for Inh			<u>∘Resident</u>	ial = 30; Ind	lustrial/Comr	nercial = 25	; Construction Wo	orker = 1						
68.81		entration at the center of a square so	urce					85.81; Constructi							
	T - Exposure Interval				ial = 9.5 x10	0°; Industrial/	Commercia	il = 7.9 x 10°; Con	struction W	Vorker = 3.6 x 10	0°				
30		Limit Volatilization Factor Equation		30											
70		ation to Groundwater Mass-Limit Equation		70											
0.18		on to Groundwater Mass-Limit Equati	ion S28	0.18											
0.087	D _i - Diffusivity in Air			Toluene											
0.271	H' - Henry's Law Constant			Toluene											
	D _w · Diffusivity in Water				= 8.6 x 10 ⁻⁶										
25 25		rcinogens In Ingestion Equation rcinogens In Inhalation Equation						Construction Work Construction Wo							-
1	THQ - Target Hazard Quotient	chogens in inhalation Equation	-	1	nai - 30, mic	10301aVCOIIII	nercial - 25	, Constituetion vvc	JIKEI - U. I	13					
- 15	RfC - Inhalation Reference Cor	ncentration		Chronic	= 5; Subchn	onic = 5				-					
0.8	RfD _o · Oral Reference Dose					chronic = 0.8	١,								
158.00	K _m - Organic Carbon Partition	Coefficient		Toluene											
	1														
Industrial/C		tion Objectives for Non-Carcinoger	nic Contaminar	nts											
S-1 =		x BW x AT x 365	1	х	70	x 25		365			- =	638750	=	1635200	mg/kg
Jo	10 ⁻⁶ x (1//	RID X EF x ED x IR _{sol}	0.000001	x 1/	0.8	x 25) х	25	×	50		0.390625			
	·														
Construct	on Worker Ingestion Remediati	on Objectives for Non-Carcinogeni	c Contaminant	5	-										
S-1 =	THO	x BW x AT x 365	1_	x	70	x 0.11	15 x	365				2938.25	_	163236	melle
S-1,=	10 ⁻⁸ x (1/l	RID ₀) x EF x ED x IR _{sol}	0.000001	x 1/	0.8	x 30	×	- 1	x	480	- = :	0.018	=	163236	mg/kg
	<u> </u>													<u> </u>	
		Ohlester													
1	on Worker Inhalation Tier II Be			_	25							0125			
S-4 =		HQ x AT x 365 ED x (1/RfC x 1/VF)	1 250	×		x 36 x 1/ 5		11347,3761	A		=	9125 0.110158	=	82835.846	mg/kg
	CF X I	-O A (MINIO A MAL)	230	^	23	^ I/ 3	x 1/			ion Objective	e cann		Sail Sa	turation Limi	it
L								rier	- mmaidt	Objectiv	- caill	exceed (JUII J4	WIEGOII CIIII	100
Inhalation	Non-Carcinogenic Constructio	n Worker													
		HQ x AT x 365	. 1	×	0.115	x 36	5 .				_	41.975	_	E3E 000	melle
S-5 =	EFXE	D x (1/RfC x 1/VF)	30	x		x 1/ 5	x 1/	76.60077386			_ =	0.078328	=	535.886	mg/kg
L															
RESIDENT	TIAL OR COMMERCIAL														
S-8 =	VE - Q ($\frac{3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times P_b \times D_A)} =$	85,81	٠.(3.14	x 7.67	E-05 x	7.90E+08) ^{1/2} ×	0.0001		3.7434	_	11347,3762	
3-0-	$VF = \frac{Q}{C} \times \frac{C}{C}$	(2 × o _x × D _a)	65.61	^7	2	x 2.1	5 x	7.67E-05	7			3.30E-04	-	11341,3102	
1		* EA = EA		,	-				,						

Tier 2 Industrial/Commercial Calculations for Toluene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089



Equation for Derivation of Apparent Diffusivity
$$S-10 = D_A = \frac{(0_s^{2.33} \times D_s \times H) + (0_s^{3.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_o \times H)}$$

$$= \frac{\left(6.23E-04 \times 0.097 \times 0.271\right) + \left(0.0004 \times 8.60E-06\right)}{0.0404} \times \frac{1}{\left(2.15 \times 2.1488\right) + 0.09 + \left(0.109 \times 0.271\right)} = 7.67E-05$$

	Soll Compos S-17 =	nent of th	e Migrat x	ion to Ground	dwater Cleanu +	p Objective (Class 1) $\frac{(\theta_w + \theta_o \times H')}{\rho b}$	=	20	×	2.1488	+ (_	0.092	•	0.109 2.15	x	0.271] =	44.107	mg/kg
--	-----------------------	------------	---------------	---------------	--------------------	--	---	----	---	--------	------	-------	---	---------------	---	-------	--	-----	--------	-------

Target Soll Leachate Concent	ration (Class 1)						
S-18 = C _w =	DF x GW _{obj}	=	20.00	x	1.000	=	20

Soil-Water Partition Coefficient						
S-19 = K _d =	K _∞ x f _∞	=	x	0.014	=	2.1488

Water-Filled Porosity
$$S-20 = \Theta_{W} = \eta \times \frac{1}{K_{\bullet}} \qquad = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.990} = 0.0917$$







Tier 2 Industrial/Commercial Calculations for Toluene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

Air-Filled Porosity															_		
S-21 = O _a	= η . Θ _w		=	0.20	٠	0.09									=	0.1090	
Dilution Factor	-																
S-22 = DF	= 1 +	Kxixd	<u>-</u> _	31.54	×	0.0200	×	3.884		1					=	1.6697	
3-22 - 51	- ,	IxL	~	0.300		12.192			•	'					-	,	
GW Ingestion	-																
S-23 =		R x BW x At, x 365	= -	1.0E-06 0.000	X	15	x	250	×	365 25	-		=	0.0E+00	- =	#DIV/0!	mg/L
	3	FOX ING X EF X ED		0.000	×	1.000	x	250	x	45				U			
Total Soil Porosity S-24 = η	$=$ 1 $\frac{\rho_b}{\rho_s}$	_	=	1		2.15 2.69	-								=	0.2007	···
S-25 = d	ing Zone Depth = (0.0112 x L ²) ^{0.5} +	d _o 1 -ехр	(-L x I) (K x i x d ₀)						_								
		*	= (0.0112	×	12.192	²) ^{0.5} +										
					_	3.048	×	1 - exp	{-	-12,192 31,536	x x	0.3 0.0200) ×	3.048	- <u>J</u> =	3.884	m
Soli Saturation Li S-29 = C _{se}	•	ζ _d x ρb) + θw + (H' x	(Pa)] = -	530 2.15	-x [(2.1488	×	2.15) +	0.092	+ (0.271	×	0,109)]=	1,168.82	mg/kg



Tier 2 Industrial/Commercial Calculations for Ethylbenzene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

SSL SSL & RBCA

Date Compiled: 02/20/18

1.70E-04

		= RBCA=	IRIS/HEAST											Ua	ate Compili Version	ea: n: 4/25/20	02/20/18 16	
Input Values																		
	's Bulk Density -> anic Matter (%)>		############### Conv ##### FOC % (0.58 conv								USDA Soil Class OC mg/kg (0.58 cc			foc con	version to	_	0.000	100
	Ph - Dry Soil Bull			ersion) ->	7. [7.2 0,000 G						y = 1.7; or Site S		CH 0.000 431	loc con	retsion to	9º9 <u>.</u> [0.000	1+6
	ps - Soil Particle						Site Spec		- 1.0, Om -	1.0, Old	1y - 1.7. 01 One 0	peeme						
	O Air Filled So		0.	109 Val	lue from S-21				1 meter = 0.	13: Gra	vel = 0.05; Sand	= 0.14; Sift	=0,24; Clay = 0	.19; or Calcu	ulated Valu	ue (S21)		
	Ow - Water Filled		0.		lue from S-20						vel = 0.20; Sand							
	η · SSL: Total So		0.	201 Va	lue from S-24						; Clay = 0.36; or			•				
0.02	I - Hydraulic Grad					Site Sp	ecific											
0.014	foc - Total Organ										or Site Specific							
20.000	DF - Dilution Fac				lue from S-22				is less than 2	0, then	20 default is use	ed, else calc	ulated value is	used				
3.884	d - Mixing Zone (lue from S-25		culated v		thickness of		la sele a l			_` _				
3.048 31.54	d. Depth of sou				et = 10 00E-04			•	thickness of	cm/d I			se cm/d for R15	D10 0 00	000000			
	K - Hydraulic Co		oundwater Flow (m)		et = 40	Site Sp	ecific (m)	0.0	45+00	CHUU]	3,136703	s any o	Se cliba lai K 13	, R 15, & R2	5. Cilbyi ic	UI FC24		
	d Aquifer Thick		Junuwater Flow (III)		et = 10		ecific (m)										_	
0.3	I - Infiltration Rat			161	ei = 10	0.3 for I												
1830	K Saturated H		tivity				ble K for h	nout Valu	ies								-	
0.700			on Objective Class 1			1		•		r Reme	diation Objective	Class 2						
0.090	1/(2b+3) - Expor		in cojecute class i			See Ta	ble K for I			., ,,,,,,,,		. 0.000 2						
70	BW - Body Welg									n-carcir	nogenic); Industr	lal/Commen	cial = 70; Const	ruction Worl	xer = 70; R	BCA =	70	
114			stion Factor for Carcinoge	ens		114												
50	IR - Soil Ingest					Reside	ntial = 200	: Industr	ial/Commerc	ial = 50:	Construction W	orker = 480	•					
1	IR., -Daily Water				-				Commercial									
170	S - Solubility in \					_	nzene = 1											
1.0E-06	TR - Target Can								ial/Commerc	ial = 10	6; Construction \	Norker = 10	e at point of hu	man exposu	re			
250	EF - Exposure F										0; Construction V							
25			lation for Non-Carcinoge								Construction Wo							
68.81			entration at the center of	a square s	source						35.81; Constructi							
	T - Exposure Inte						ntial = 9.5	x10"; Inc	<u>fustrial/Comr</u>	mercial	= 7.9 x 10°; Con:	struction Wo	orker = 3.6 x 10					
30			Limit Volatilization Facto			30												
70			tion to Groundwater Mass-Li			70												
0.18			on to Groundwater Mass-	Limit Equa	nion S28	0.18										-		
0.075	D _i - Diffusivity in						nzene = C											
0.324	H' - Henry's Law						nzene = C											
7.80E-06	D _w - Diffusivity is		 				nzene = 7											
25 25			tinogens In Ingestion Equinogens In Inhalation Eq								Construction Work Construction Wo							
1	THQ - Target Ha		Jinogens in initalation Eq	luation		1	IIIIai - 30,	musma	10Commercia	11 - 23,	CONSTRUCTION VVC	iikei ~ U. i is	,					
	RfC - Inhalation		centration			_	: = 1; Sub	chronic =	9 ==== 0									
0.1	RfD Oral Refe						: = 0.1; Su											
320.00	K _{oc} - Organic Ca		Coefficient			Ethylbe	nzene = 3	363										
	•																	
Industrial/C	Commercial Inge		tion Objectives for Non-	Carcinogo	enic Contaminar	nts												
S-1 =			x BW x AT x 365	:		x	70	x	25	x	365				750	=	204400	mg/kg
'		10° x (1/F	tfD _a) x EF x ED x IR _{col}		0.000001	x 1/	0.1	x	250	×	25	×	50	3.1	125			
								-										
Construction	on Worker Inges		on Objectives for Non-C	arcinoge	nic Contaminant	5												
S-1.=			x BW x AT x 365	:	1	X	70	X	0.115	x	365			=	8.25	=	10202	mg/kg
5-1		10 ⁻⁶ x (1/F	د دنها × EF x ED x IR	;	• • 0.000001	x 1/	0.05	×	30	×	1	×	480	0.2	288			
Щ.																		
Construction	on Worker Inhala	tion Tier II Res	zene Oblective															
1			HQ x AT x 365		_ 1	×	25	×	365					_ 91	125	=	23080	math
S-4 =			D x (1/RfC x 1/VF)	•	250	×	25	x 1/	1	x 1/	15808,27272	2			95363	-	23000	mg/k
											Tier	2 Inhalatio	on Objective	cannot ex	cceed Sc	oil Satu	ration Lin	nit
Inhalation	Non-Carcinogen	ic Construction	Worker															
S-5 =		T	HQ x AT x 365	:	=	x	0.115	x	365					_ = _41.	.975 31236	=	1343.798	mg/kg
-		EF x E	D x (1/RfC x 1/VF)		30	×	1	x 1/	9	x 1/	106.7141782		Objecti			.:. 0 . 4		
Ц											Tier	z innaiati	on Objective	cannot e	rceed Sc	on Sati	iration Lin	nrt
DECIDENT	1A1 OB COM	DOIAL							_									
KESIDENT	TIAL OR COMME						•		0.055.05		7 000 . 00) 1/2 x	0.0004		074			
S-8 =	VF = - 0	×	3.14 x D _A x T) ^{1/2} x 10 ⁻⁴		= 85.81	Lx	3.14	×	3.95E-05	X	7.90E+08) x	0.0001	_ =	871	=	15808.2727	

2.15

7

00185

 $(2 \times \rho_b \times D_A)$



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Tier 2 Industrial/Commercial Calculations for Ethylbenzene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1039

Construction Worker

S-8 = VF =
$$\frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^4}{(2 \times \rho_b \times D_A)}$$
 = 85.81 $\times \frac{(3.14 \times 3.95E-05 \times 3.60E+06)^{1/2} \times 0.0001}{(2 \times 2.15 \times 3.95E-05)}$ = $\frac{0.1814}{1.70E-04}$ = 1067.1418

Equation for Derivation of Volatilization Factor - Construction Worker

$$S.9 = VF' = \frac{VF}{10} = \frac{1067.1418}{10} = 106.7142$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_{A} = \frac{(\theta_{o}^{3.25} \times D_{i} \times H) + (\theta_{o}^{3.25} \times D_{o})}{\eta^{2}} \times \frac{1}{(\rho_{b} \times K_{d}) + \theta_{w} + (\theta_{o} \times H)}$$

$$= \frac{\left(6.23E \cdot 0.4 \times 0.075 \times 0.324\right) + \left(0.0004 \times 7.80E \cdot 0.6\right)}{0.0404} \times \frac{1}{(2.15 \times 4.352) + 0.09 + \left(0.109 \times 0.324\right)} = 3.95E \cdot 0.5$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1) $S-17 = C_m \times \left[K_d + \frac{(\theta_m + \theta_o \times H)}{(\theta_m + \theta_o \times H)} \right] = 14 \times \left[4.352 + \frac{(-0.01)}{4.352} \right]$

Target Soil Leachate Concentration (Class 1)

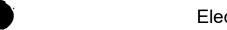
S-18 = $C_w = DF \times GW_{eq}$ = 20.00 \times 0.700 = 14

Soil-Water Partition Coefficient

 $S-19 = K_d = K_{cc} \times f_{cc} = 320.00 \times 0.014$ = 4.352

Water-Filled Porosity

$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} \qquad = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} \qquad = 0.0917$$







0.1090

Tier 2 Industrial/Commercial Calculations for Ethylbenzene \$& \$ Infinite Group, Inc. - DBA Downtown 66 2016-1089

Air-Filled Porosity $S-21 = \Theta_a = \eta \cdot \Theta_m = 0.20 \cdot 0.09$

Dilution Factor

S-22 = DF = 1 + Kxixd = 31.54 x 0.0200 x 3.884 + 1 = 1.6697

GW Ingestion
S-23 = TR x BW x AL_x x 365 = 1.0E-06 x 70 x 0 x 365 = 0.0E+00 = #DIV/0! mg/L

Total Soil Porosity $S-24 = \eta = 1 \cdot \frac{P_b}{\rho_s} = 1 \cdot \frac{2.15}{2.69} = 0.2007$

Estimation of Mixing Zone Depth

S-25 = $\mathbf{d} = (0.0112 \times L^2)^{0.5} + \mathbf{d}_0 \left[1 - \exp \left(\frac{(-L \times I)}{(K \times i \times \mathbf{d}_0)} \right) \right]$ = $(0.0112 \times 12.192^{-2})^{0.5} + \frac{1 \cdot \exp \left(\frac{(-12.192 \times 0.3)^{-1}}{31.536 \times 0.0200 \times 3.048} \right)} = 3.884$ m

Soil Saturation Limit $S-29 = C_{\text{sat}} = \frac{S}{\rho_b} \times \left[(K_d \times \rho b) + \Theta w + (H' \times \theta a) \right] = \frac{170}{2.15} \times \left[(4.352 \times 2.15) + 0.092 + (0.324 \times 0.109) \right] = 749.91 \text{ mg/kg}$

Soli Gas Outdoor Inhalation
S-30 = ROs g = ROs g = ROs G = ROS G = ROS





Tier 2 Industrial/Commercial Calculations for Total Xylenes S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

SSL & RBCA Date Compiled: 02/20/18 Version: 4/25/2016 **Input Values** Hotcomb's Bulk Density --> Converted Value to be used in calculation sheet -> USDA Soil Classification: Sand Organic Matter (%) -> FOC % (0.58 conversion) -> 0.000 Organic Matter (mg/kg) FOC mg/kg (0.58 conversion) 0.000 foc conversion to q/q: 2.150 |pb - Dry Soil Bulk Density 1.5 or, Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific 2.69 ps - Soil Particle Density 2.65 or, Site Specific 0.109 ⊕. - Air Filled Soil Porosity 0.109 Value from \$-21 Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21) 0.092 Value from S-20 Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt =0.16; Clay = 0.17; or Calculated Value (S20) 0.201 n - SSL: Total Soil Porosity 0.43 or, Gravel - 0.25; Sand = 0.32; Sitt = 0.40; Clay = 0.36; or Calculated Value (S24) 0.201 Value from S-24 0.02 i - Hydraulic Gradient Site Specific 0.014 foc - Total Organic Carbon (g/g) Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific 20.000 DF - Dilution Factor 1.670 Value from S-22 If calculated value for DF is less than 20, then 20 default is used, else calculated value is used 3.884 d - Mixing Zone (m) 3.884 Value from S-25 2; or calculated value 3.048 d. - Depth of source (m) feet = 10 Depth of Source (Vertical thickness of contamination) 31.54 K - Hydraulic Conductivity (m/yr) cm/sec = 1.00E-04 Site Specific 8.64E+00 r cm/d 3.15E+03 : cm/yr Use cm/d for R15, R19, & R26. cm/yr for R24 12.192 L - Source Length Parallel to Groundwater Flow (m) feet = 40 Site Specific (m) 3.048 d. Aquifer Thickness (m) · feet = 10 Site Specific (m) I - Infiltration Rate (m/yr) 0.3 for Illinols 0.3 K. - Saturated Hydraulic Conductivity See Table K for Input Values 10.000 GWool - Groundwater Remediation Objective Class 1 10 GW_{obi} - Groundwater Remediation Objective Class 2 0.090 1/(2b+3) - Exponent for S20 See Table K for Input Values Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70 BW - Body Weight IF solved - Age Adjusted Soil Ingestion Factor for Carcinogens 114 IR_{soil} -Soil Ingestion Rate 50 Residential = 200; Industrial/Commercial = 50; Construction Worker = 480 IR... - Daily Water Ingestion Rate Residential = 2: Industrial/Commercial = 1 S - Solubility in Water Total Xylenes = 186 1.0E-06 TR - Target Cancer Risk Residential = 10⁻⁶; Industrial/Commercial = 10⁻⁶; Construction Worker = 10⁻⁶ at point of human exposure 250 EF - Exposure Frequency Residential = 350; Industrial/Commercial = 250; Construction Worker = 30 ED - Exposure Duration for Inhalation for Non-Carcinogens Residential = 30; Industrial/Commercial = 25; Construction Worker = 1 68.81 Q/C - Inverse of the mean concentration at the center of a square source Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H 7.90E+08 T - Exposure Interval Residential = 9.5 x 108; Industrial/Commercial = 7.9 x 108; Construction Worker = 3.6 x 108 30 T_{M-L} - Exposure Interval for Mall Limit Volatilization Factor Equation S26 30 EDat - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28 70 Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28 0.18 0.074 D_i - Diffusivity in Air Total Xylenes = 0.072 0.271 H' - Henry's Law Constant Total Xylenes = 0.25 9.23E-06 D_w - Diffusivity in Water Total Xylenes = 9.34 x 10 AT - Average Time for Non-Carcinogens In Ingestion Equation Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115 AT - Average Time for Non-Carcinogens In Inhalation Equation Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115 THQ - Target Hazard Quotlent RIC - Inhalation Reference Concentration Chronic = 0.1; Subchronic = 0.4 RfD_o · Oral Reference Dose Chronic = 0.2; Subchronic = 0.4 398.00 K_{oc} - Organic Carbon Partition Coefficient Total Xylenes = 260 Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminant THO Y RW Y AT Y 365 638750 S-1 = 408800 mg/kg X (1/RID,) XEF X ED X IR. Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants 0.115 S-1 = 81618 mg/kg X (1/RIDJ) X EF X ED X IR. Construction Worker Inhalation Tier II Benzene Objective THQ x AT x 365 |S-4 = = 2838.457 mg/kg EF x ED x (1/R/C x 1/VF) x 1/ 3.214774369 Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit Inhalation Non-Carcinogenic Construction Worker THQ x AT x 365 41.975 S-5 = 73.451 mg/kg EF x ED x (1/RIC x 1/VF) 30 0.4 x 1/ 131.2403032 0.571470792 RESIDENTIAL OR COMMERCIAL (3.14 x D_A x T)^{1/2} x 10⁻⁴ 2.61E-05 7.90E+08 0.0001 2,1849

85.81

 $(2 \times \rho_b \times D_A)$

VF =

2.61E-05

2.15

19441.4888

1.12E-04



Tier 2 Industrial/Commercial Calculations for Total Xylenes \$ & \$ Infinite Group, Inc. - DBA Downtown 66 2016-1089

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times 7)^{1/2} \times 10^4}{(2 \times p_b \times D_b)} = 85.81 \times \frac{\left(3.14 \times 2.61 \text{E-05} \times 3.60 \text{E-06}\right)^{1/2} \times 0.0001}{\left(2 \times 2.61 \text{E-05}\right)} = \frac{0.1475}{1.12 \text{E-04}} = 1312.4030$$

Equation for Derivation of Volatilization Factor - Construction Worker

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_0^{333} \times D_1 \times H^2) + (\theta_0^{333} \times D_0)}{\eta^2} \times \frac{1}{(\rho_0 \times K_0^2) + \theta_0 + (\theta_0 \times H^2)}$$

$$= \frac{\left(6.23E-04 \times 0.074 \times 0.271\right) + \left(0.0004 \times 9.23E-06\right)}{0.0404} \times \frac{1}{(2.15 \times 5.4128) + 0.09 + \left(0.109 \times 0.271\right)} = 2.61E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

S-17 = C_w x K_0 + $\frac{(\theta_w + \theta_0 \times H)}{\rho b}$ = 200 x 5.4128 + $\frac{(0.092 + 0.109 \times 0.274)}{2.15}$

Target Soil Leachate Concentration (Class 1)

S-18 = C_w = DF x GW_{obj} = 20.00 x 10.000 = 200

1093.866

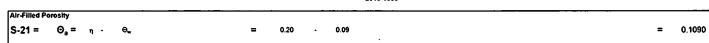
Tier 2 Soil Component of GW Ingestion Objective cannot exceed Soil Saturation Limit

Water-Filled Porosity $S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} \qquad = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} = 0.0917$



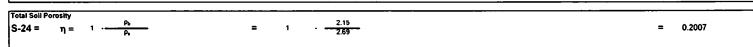
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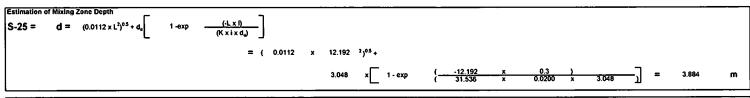
Tier 2 Industrial/Commercial Calculations for Total Xylenes S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089



Dilution Factor
$$S-22 = DF = 1 + \frac{K \times i \times d}{I \times L} = \frac{31.54 \times 0.0200 \times 3.884}{0.300 \quad 12.192} + 1 = 1.6697$$

SF ₀ x IR _w x EF x ED 0.000 x 1.000 x 250 x 25 0	GW Ingestion S-23 =	TR x BW x AL x 365 SF ₀ x IR _x x EF x ED	1.0E-0		70 1.000	x	0 250	x x	365 25	= 0.0E+00	=	#DIV/0!	mg/L
--	---------------------	---	--------	--	-------------	---	----------	--------	-----------	-----------	---	---------	------





Soll Saturat	ion Limit	•											
S-29 =	$C_{sat} = \frac{S}{\rho_b} x$	$\{(K_d \times \rho b) + \Theta w + (H' \times \theta a)\}$	$= \frac{110}{2.15} \times [(5.4128)$	×	2.15) +	0.092	+ (0.271	ĸ	0.109)] =	601.63	mg/kg

1	Soll Gas O	utdoor Inhalation												•			
ł	S-30 =	ROs g =	ROsoit X H X pb X 1000	_	73.451	x _	0.271	х	2.150	×	1000				_	3,639.42	l
- 1	3-30 -	KUS y -	H' X \Oa + \Ow + Kd X pb	_	2.710E-01	×	0.109	+	0.092	+	5.413	Х	2.150		_	3,033.42	mg/m²
- 1																	I
ı																	



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Tier 2 Industrial/Commercial Calculations for Naphthalene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

SSL SSL & RBCA
RBCA IRIS/HEAST

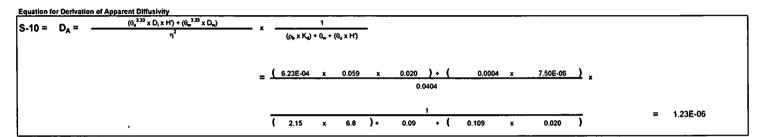
Date Compiled: 02/20/18

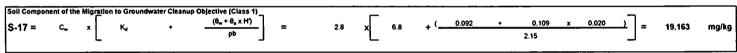
Version: 4/25/2018

		RBCA	IRIS/HEAST												Ver	pileu. sion: 4/25/	2018	
Input Values	s 's Bulk Density	-> 0	Convo	dod Value	to be used in	المادياما	lan ahaat	<u>. </u>			ISDA Sail Close	Gaatlaa. C	· and					
	nic Matter (%)		FOC % (0.58 conver		to be used in		ion sneet nic Matter (i		 -		JSDA Soil Class DC mg/kg (0.58 co			fo	oc conversion	o olo:	0.000	
	Pb - Dry Soil I		1 00 % (0.50 conver	31011)	1 0.000						lay = 1.7; or Site		0.000		oc conversion	o grg.	0.000	
	ps - Soil Parti						Site Spe		3 - 1.0, OM -	1,0,0	7.D) = 1.7, Gr GA	- орссии						
0.109	Θ _a - Air Filled	Soil Porosity	0.10	9 Value	e from S-21				v 1 meter = (0.13; G	ravel = 0.05; Sa	nd = 0.14;	Silt =0.24; Cl	ay = 0.19	9; or Calculate	d Value ((S21)	
		ited Soil Poros	ity 0.05		e from S-20						iravel = 0.20; Sa							
0.201	η - SSL: Total	Soil Porosity	0.20	1 Value	e from S-24						40; Clay = 0.36;							
0.02	i - Hydraulic C	radient -				Site Sp												
		ganic Carbon (9/9)								02; or Site Speci							
	DF - Dilution								is less than	20, the	en 20 default is u	ised, else	calculated val	lue is us	ed			
	d - Mixing Zor			(feet	- 40		lculated v		14h1-1		_1_+41+->							
	d Depth of		-1-1						thickness o			16			4 500			
		Conductivity (m/yr) cm/sec o Groundwater Flow (m)		= 40	Site Sp	ecific (m)		4E+00)	cm/d	3.152+03	i çmiyr [C	Jse cmva tar H	(15, K19	. & R26. cm/y	r lor R24	-	
	d Aquifer T		Groundwater Flow (in)		= 10		ecific (m)											
	I - Infiltration			1661	- 10	0.3 for												
		Hydraulic Co	nductivity				ble K for	looud Mai										
	_		diation Objective Class 1				0.22			r Dom	ediation Objectiv	o Class 2						
0.090		ponent for S20			٠		ble K for			. IVEIN	calation Objective	C Class Z					-	
70	BW - Body W		·							ion-can	cinogenic); Indu	strial/Com	mercial = 70°	Constnic	tion Worker =	70: RBC	A = 70	
			ngestion Factor for Carcinogen	3		114		100.00.00			and delivery and					. 5, 1.50		
	IR. Soil Ing						ntial = 20	D. Industi	rial/Commer	rial = 5	0; Construction	Worker =	480					
1		ter Ingestion F	Rate						VCommercia									
31	S - Solubility		1017	-			alene = 3		- John Heicle	., - 1								
1.0E-06	TR - Target C								rial/Comme	riot = 1	10 ⁻⁶ : Constructio	n Worker =	10 ⁻⁶ at point	of huma	n avnoture			
250	EF - Exposur		. •			√Reside	ntial = 35	O: Indust	rial/Commer	cial = 2	250; Construction	n Worker =	= 30	O) HOINA	iii exposore			
25			Inhalation for Non-Carcinogens	1		Reside	ntial = 30	: Industri	al/Commerc	lal = 25	; Construction V	Vorker = 1						
68.81	Q/C - Inverse	of the mean c	oncentration at the center of a	square so	urce						85.81; Constru			Table H	·			
7.90E+08	T - Exposure	Interval				Reside	ntial = 9.5	5 x10 ⁶ ; In	dustrlat/Con	nmercia	al = 7.9 x 10 ⁸ ; Co	onstruction	Worker = 3.6	x 10 ⁶		-		
30	T _{ML} - Exposu	re Interval for	Mall Limit Volatilization Factor (Equation S	26	30												
70	EDw Exposu	re Duration for N	ligration to Groundwater Mass-Limi	t Equation S	S28	70												
0.18	I _{M-L} - Infiltratio	n Rate for Mig	ration to Groundwater Mass-Lin	nit Equatio	on S28	0.18												
0.059	D _i - Diffusivity	in Alr				Naphth	nalene = 0	.059										
0.0198	H' - Henry's L	aw Constant				Naphth	nalene = 0	.0198										
7.50E-06	D _w - Diffusivit					Naphth	natene = 7	.5 x 10 ⁻⁸										
25			Carcinogens In Ingestion Equa								Construction W							
25			Carcinogens In Inhalation Equa	ation		Reside	ntial = 30	; industri	al/Commerc	ial = 25	5; Construction V	Vorker = 0	.115					
0.003		Hazard Quotio				1	0 000	0.5.5.										
0.003			Concentration	-					nic = 0.003			<u> </u>			 ; -			
		eference Dose					c = 0.02;		11C = U.6			•						
500.00	K _{oc} - Organic	Carbon Partiti	on Coefficient			Naphtr	nalene = 2	2,000										
(Industrial/C	ommercial in	nestion Reme	diation Objectives for Non-Ca	minonen	ic Contamina	nts												
i .			HQ x BW x AT x 365		1	×	70	×	25	¥	365				638750			
S-1 =	_		(1/RfD _a) x EF x ED x IR _{an}	_ =	0.000001	x 1/	0.02	<u> </u>	250	- î	25	×	50	- =	15.625	=	40880	mg/kg
1			(0.00000	~ "	0.02	•		•		_	••					
(8	- 107	B	V-Al Obli- Al C P															
Construction	on Worker Ing		liation Objectives for Non-Car HQ x BW x AT x 365	cinogenic	: Contaminan	15	70	_	0.446		200				2020 25			
S-1 =	-			=		X 41		х	0.115	Х	365		400	- =	2938.25	=	122427	mg/kg
l .		10°x	(1/RID _e) x EF x ED x IR _{equi} ·		0.000001	x 1/	0.6	x	30	×	1	x	480		0.024			٠. ٠
Construction	on Worker Inh	alation Tier II	Benzene Objective		_		-										•	
S-4 =	_		THQ x AT x 365	=	1	x	25	×	365					_ =	9125	=	392.664	mg/kg
		EF	x ED x (1/R/C x 1/VF)		250	Х	25	x 1/	0.003	x 1/	89649.24924				23.23871			g,g
Data de la constantina			-1 W										•					
1	von-Carcinog	enic Construc	tion Worker THQ x AT x 365			ų.	0.115	J	365						44 075			
S-5 =	_		x ED x (1/RfC x 1/VF')	·=	30	<u> </u>	0.115	X 1/	0.003	x 1/	605.1797139			_ =	41.975 16.52402	=	2.540	mg/kg
		ĘF	Y PRO Y (INCIPA INAL.)		30	•	•	x 1/	0.003	A 1/	009.1181138				10,52402			
RESIDENT	IAL OR COM	MERCIAL																
١	VE.	Q .	(3.14 x D _A x T) ^{1/2} x 10 ⁻⁴			. (3.14	×	1.23E-06	×	7.90E+08) 1/2 x	0.0001	_	0.4738	_	00046 5405	
5-8 =	VF = -	x	(3.14 x D _A x T) ^{1/2} x 10 ⁻⁴ (2 x ρ _b x D _A)	=	85.81	×	2	-	2.15	×	1,23E-06	1		=	5.29E-06	=	89649.2492	
1		~	(4 v hP v DV)			,	4	*	2.13	^	1.436-00	,			J.236400			

Tier 2 Industrial/Commercial Calculations for Naphthalene \$ & \$ Infinite Group, Inc. - DBA Downtown 66

								2016-1	1089							
Construc	tion Worker	r					_									
S_8 =	VF =	<u> </u>	(3.14 x D _A x T) ^{1/2} x 10 ⁻⁴	_ =	85,81	٠.	3.14	x	1.23E-06	×	3,60E+06) ^{1/2} x	0.0001		=	6051.7971
3-0-	•• -	<u> </u>	(2 x 6 x Da)		00.01	-7	,	- ¥	2 15	¥	1.23E-06	<u>, </u>		5.29F-06	_	0001.7071





Target Soil	Leachate Concentration (Cla	ss 1)								
S-18 =	C _w =	DF x GW _{obj}	=	20.00	x	0.140	•		=	2.8

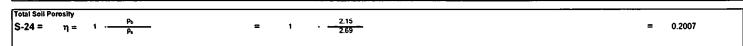
Soil-Water Partition Coefficient								
S-19 = K _d =	K _{oc} x f _{oc}	=	500.00	x	0.0	014	=	6.8
		•						

Water-Filled Porosity
$$S-20 = \Theta_{W} = \eta \times \frac{1}{K_{s}} \qquad = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} = 0.0917$$

Tier 2 Industrial/Commercial Calculations for Naphthalene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

Air-Filled Po	rosity				-			
S-21 =	Θ _a = η ·	Θ,,	=	0.20		0.09	=	0.1090

GW Ingestion												
6 22 -	TR x BW x At _c x 365	1.0E-06	x	70	X	0	x	365	_ 0.0E+00	_	#DIV/0!	mg/L
3-23 -	SF _o x IR _o x EF x ED	0.000	×	1.000	×	250	×	25		_	#51470;	mg/c



Soll Satura	tion Limit	-										_				
S-29 =	$C_{sat} = \frac{S}{\rho_b} x$	[(K _a x pb) + 0w + (H' x 8a)]	= 31 2.15 x [(6.8	x	2.15) +	0.092	+ (0.020	x	0.109)]	=	212.16	mg/kg

Soll Gas C	utdoor inhalation															
S-30 =	ROs g =	ROsoil X H X pb X 1000	- -	2.540	x	0.020	x	2.150	x	1000			_	=	7.35	mg/m³
3-30 -	103 y -	H' X Oa + Ow + Kd X pb		1,980E-02	x	0,109	+	0.092	+	6.800	Х	2.150	_	_	7.55	mym
													٠.			

Tier 2 Industrial/Commercial Calculations for MTBE S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

SSL SSL & RBCA RBCA IRIS/HEAST Date Compiled: 02/20/18
Version: 4/25/2016

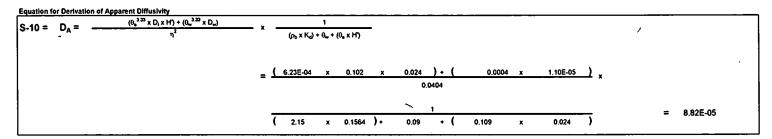
		RBCA	IRIS/HEAST													Versi	ion: 4/25/20)16	
Input Values				-:	,														
	's Bulk Density ->				Value to be					-		JSDA Soil Classifi			1 (00		. 2/2	0.000	
	anic Matter (%) ->		FOC % (0.58 conv	ersion)	-> _	0.000		c Matter (m		0		OC mg/kg (0.58 com		0.000	100	conversion to	9/9:	0.000	
	ρ _b - Dry Soil Bull ps - Soil Particle							Site Spec		1.8; SIR	= 1.6; Cla	ay = 1.7; or Site S	ресніс						
			•	109	Makes fore					. 1 motor =	0.12: 6~	avel = 0.05; Sand	- 0 14: C	# =0 24: Clave	= 0 10: Ac	Coleulated V	alua (S2		
	O. Air Filled So				Value from							evel = 0.20; Sand							
0.092 0.201	n - SSL & Or - RE				Value from); Clay = 0.20, Sano				Calculated V	alue (52	<i>"</i>	
	i - Hydraulic Grad		Porosity V.	201	value Iron		Site So		J.25; Sai	nu = 0.32, 3	51II = U.4L	J, Clay - 0.36, or C	Jaiculatet	u value (524)					
0.02	foc - Total Organ								106. SHP	curtaca Sa	ii = 0.002	; or Site Specific							
	DF - Dilution Fac			670	Value from	n S.22						20 default is use	d else ca	iculated value	is used				
	d - Mixing Zone			884	Value from			culated v		13 1033 0101	120, 11101	120 4014611 15 450	<u> </u>	INCOLUTE VOICE					
	d. Depth of sou				feet = 10					thickness o	of contam	nination)							
	K - Hydraulic Co		1 cm/s	ec =	1.00E-04		Site Sp		•	4E+00			cmArr III	Ise cm/d for R	15 R19 8	R26 cm/vr	for R24		
12,192			oundwater Flow (m)	-	feet = 40			ecific (m)	0.0	,	- 00	0.102.00.	unbyt 10	75C CA117G 1O1 1.		100. 0			
3.048	d Aquifer Thick				feet = 10			ecific (m)											
	1 - Infiltration Rat	. ,	•				0.3 for 1												
1830	K Saturated H		clivity					ble K for I	nout Valu	ues				_					
			on Objective Class 1								er Reme	diation Objective (lass 2						
0.070	1/(2b+3) - Expon							ble K for to				a.aon objective (
70	BW - Body Weig										non-cami	nogenic); Industri	al/Comm	ercial = 70° Co	nstruction	Worker = 70	: RBCA =	70	
			stion Factor for Carcinoge	ens			114												
50	IR. Soil Ingest		saon raster for earening					tiol = 200	· loduete	dal/Camma	mial = 60	: Construction Wo	rkor = 49	20					
												, Consudendi We	JIKE! - 40						
1	IR., -Daily Water								naustnat	/Commerci	a) = 1								
51000	S - Solubility In V							51,000		1 446							-		
	TR - Target Can											06; Construction V 00; Construction V			numan ex	posure			
250 25	EF - Exposure F	requency	alation for Non-Carcinoge									Construction Wor		30					
			entration at the center of		re source							85.81; Construction		r = 85 81° or T	able H				
	T - Exposure Inte		chilation at the center of	a squu	ic source							= 7.9 x 10 ⁸ ; Cons							
30			Limit Volatilization Facto	r Faus	tion S26		30	1001 - 3.5	X10 , 111	0031110000	innie e e	- 1.5 x 10 , CO113	addition t	101KC1 - 0.0 X					
70			tion to Groundwater Mass-Li				70												
0.18			on to Groundwater Mass-			10	0.18												
			on to Groundwater wiass-	Cillin	quation 32	.0	MTBE 4	0.400											
0.102	D _i - Diffusivity in																		
	H' - Henry's Law							0.0241 1.1 x 10	8										
	D., - Diffusivity in		 																
25			cinogens in Ingestion Eq									Construction Work Construction Work							
25	THQ - Target Ha		rcinogens In Inhalation Ed	luation			1	nuai - 30,	muusuk	arcommen	ÇIBI - 25,	CONSTRUCTION WO	Kei - U, I	13					
3	RfC - Inhalation		eentration				•	= 3; Sub	chronie :	- 26									
0.01	RfD _a - Oral Refe		iocination .					= 0.01; S							•	•			
11.50	K _{oo} - Organic Ca		Canfficient				MTBE		doction	ue - 0.1									
11.30	r‱ - Organic Ca	iroon Panillon	Coenicient				MIDE	- 11.5											
Dooldontis	I Innestina Dema	diation Object	ives for Non-Carcinoger	de Čā	ntomino-4										_				
1	ı ingestion keme		ives for Non-Carcinogei x BW x AT x 365	IIIE C01	maminants	• •	v	70		25		365				638750			
S-1 =			RIDD X EF X ED X IR.		· = -	0.000001	x 1/	0.01	-	250	<u> </u>	25	×	50	- = -	31 25	=	20440	mg/kg
		10 × (1//	(ID) X EF X ED X IK-109		,	0.000001	X 1/	0.01	×	250		25	•	30		31.23			
													-						
Construction	on Worker Ingest	ion Remediat	on Objectives for Non-C	arcino	genic Con	ntaminante													
			x BW x AT x 365			1	×	70	×	0.115	x	365			_	2938.25	_		
S-1 = · ^	· · · · 		R(D _a) x EF x ED x IR _{ed}		• = -	0.000001	x 1/	0.1	×	30	х .	1	x	480	- = -	0.144	=	20405	mg/kg
					`		**	•			-	-				/			
Construction	on Worker Inhala	tion Tier II Be	nzene Objective																
S-4 =			HQ x AT x 365		. =	_ 1	×	25	x	365					_ = -	9125	=	46347.267	mg/kg
		EF x (D x (1/RfC x 1/VF)			250	×	25	x 1/	3	x 1/	10581.56779				0.196883			
												Tier 2	Inhalati	ion Objecti	ve canno	t exceed S	oil Sat	uration Limi	it
Inhalation	Non-Carcinogeni					_													
S-5 =	_		HQ x AT x 365		- - -		X	0.115	×	365					_ = -	41.975	=	249.860	mg/kg
1 -		EF x 6	D x (1/RIC x 1/VF)			30	×	1	x 1/	2.5	x 1/	71.43116339				0.167994			

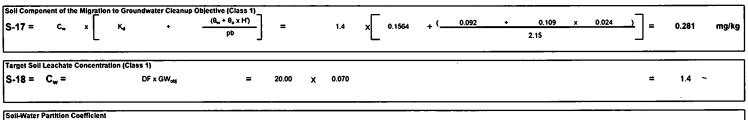
Tier 2 Industrial/Commercial Calculations for MTBE

	5 & 5 infinite Group, Inc DBA Downtown 6
	2016-1089
ESIDENTIAL OR COMMERCIAL	

RESIDENT	TAL OR CO	MMERCI	AL														
S-8 =	VF =	Q	' (3.14 x D _A x T) ^{1/2} x 10 ⁻⁴	_ =	85.81	1.	3.14	x	8.82E-05	×	7.90E+08) ^{1/2} X	0.0001	= .	4.0143	=	10581.5678
3-5-	V I -	c ^	(2 x ρ _b x D _A)		05.01	^(2	×	2.15	×	8.82E-05)			3.79E-04		10001.0070
1																	

(3.14 x D_A x T)^{1/2} x 10⁻⁴ 0.2710 3.60E+06 = 714.3116 $(2 \times \rho_b \times D_A)$ 8.82E-05





Soil-Water Partition Coefficient
$$S-19 = K_d = K_{\infty} \times I_{\infty} = 11.50 \times 0.014$$
 = 0.1564

Tier 2 Industrial/Commercial Calculations for MTBE

Water-Filled Porosity
$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{v}} = 0.20 \times \left[\frac{0.300}{1830.000}\right]^{0.000} = 0.0917$$

Air-Filled Porosity
$$S-21 = \Theta_a = \eta \cdot \Theta_w = 0.20 \cdot 0.09 = 0.1090$$

GW Ingestion										 			
S-23 = -	TR x BW x At _c x 365	_ =	1.0E-06	. х	70	x	0	x	365	_ 0.0E+00	_	#DIV/0!	mg/L
3-23 -	SF _o x IR _w x EF x ED		0.000	x	1.000	x	250	x	25		_	#01470:	mg/L

Total Soil Porosity S-24 =
$$\eta = 1 \cdot \frac{\rho_0}{\rho_0}$$
 = 1 $\cdot \frac{2.15}{2.69}$ = 0.2007

Estimation of Mixing Zone Depth
$$S-25 = d = (0.0112 \times L^2)^{0.5} + d_a \begin{bmatrix} 1 \cdot \exp & \frac{(-L \times I)}{(K \times I \times d_a)} \end{bmatrix}$$

$$= (0.0112 \times 12.192^{-2})^{0.5} + \frac{(-12.192 \times 0.3)}{31.536 \times 0.0200 \times 3.048} \end{bmatrix} = 3.884 \text{ m}$$

Soil Saturation Limit		54000					
$S-29 = C_{sat} = \frac{S}{\rho_b},$	x [(K _d x pb) + 9w + (H' x 8a)]	= \frac{51000}{2.15} x [(0.1564	x 2.15) + 0.092	+ (0.024	x 0.109 }] =	10,221.04 mg/kg

Tier 2 Industrial/Commercial Calculations for Benzo[a]pyrene S & S Infinite Group, Inc. - DBA Downtown 66

						2016-108	B9											
	SSL	SSL & RBCA					••								Date Com	piled:	02/20/18	
	RBCA	IRIS/HEAST													Ve	raion: 4/25	V2016	
Input Value																		
	's Bulk Density -> 0		Value to be used in						ISDA Soil Cla									
	anic Matter (%) -> 0	FOC % (0.58 conversion	0.000		anic Matter (n		0		OC mg/kg (0.58			0.000		toc c	onversion	to g/g:	0.000	
	ph - Dry Soil Bulk Density						= 1.8; S	it = 1.6; CI	ay = 1.7; or S	ite Specifi	ic							
2.69	ps - Soil Particle Density		100.00.000		or, Site Spec													
0.109	Θ _a - Air Filled Soil Porosity	0.109	Value from S-21						avel = 0.05; S									
0.092	Ow - Water Filled Soil Porosity		Value from S-20						avel = 0.20; S					U.17; OF	r Çalçulate	a value	(\$20)	
0.201	n - SSL: Total Soil Porosity I - Hydraulic Gradient	0.201	Value from S-24			0.25; Sar	nd = 0.32	; Sin = 0.4	0; Ctay = 0.36	; or Calcu	lated	value (S	24)					
0.014	foc - Total Organic Carbon (g/g	.			Specific	nne- Sub	eudaea S	200.000	2; or Site Spec	eifie			_					
	DF - Dilution Factor	1.593	Value from S-22						n 20 default is		e calc	ulated v	alue is	nsed				
4,468	d - Mixing Zone (m)	4.468	Value from S-25		calculated v		13 1033 (1)	un 20, mc.	TO GCIDGII IS	4300,013	00.0	GIGICG V	uice is	0300				
31,54	K - Hydraulic Conductivity (m/y		1.00E-04		Specific		E+00) cm/d	3,15E+	03 cm/yr	Use	cm/d fo	r R15.	R19, &	R26. cm/	vr for R2	:4	
15.850	L - Source Length Parallel to G		feet = 52	Site S	Specific (m)													
3.048	d _a - Aquifer Thickness (m)		feet = 10		Specific (m)													
0.3	I - Infiltration Rate (m/yr)				r Illinois													
1830	K Saturated Hydraulic Condu	etivity			Table K for I	nput Valu	ues		-									
0.005	GW _{atel} - Groundwater Remedial	tion Objective Class 1		i	0.025	GW	Groundw	ater Reme	diation Object	live Class	2							
0.090	1/(2b+3) - Exponent for S20	•		See 1	Table K for I							-						
70	BW - Body Weight							(non-carc	Inogenic); Ind	ustrlal/Co	mmen	clal = 70	: Cons	truction	Worker =	70; RBC	A = 70	
114	IF and and -Age Adjusted Soil Inge	estion Factor for Carcinogens		114														
50	IR _{est} -Soil Ingestion Rate	-		Resid	iential = 200); Industri	iat/Comn	nercial = 50	D: Constructio	n Worker	= 480							
7.3	SF _o -Oral Slop Factor				o[a]Pyrene													
1	IR., -Daily Water Ingestion Rate	Δ.			iential = 2; I		Comme	rial = 1					-					
	S - Solubility In Water	<u> </u>			olalpyrene =			- T										
	TR - Target Cancer Risk	-						necrial = 1	0 ⁻⁶ ; Constructi	ion Worke	r = 10	-6 at noir	nt of hu	man er	YOURING			
70	AT, -Average Time for Carcino	nens		170	2011101 - 10	, 11100311	100001111	1010101 - 11	<u>, 00.13114C11</u>	ion troinc	., - 10	ut pon			.,,,,,,,,,			
1.10E-03	URF - Inhalation Unit Risk Fac	<u>· </u>			ofalpyrene =	-0 0 × 10	·2											
250	EF - Exposure Frequency	101						nercial = 2	50; Constructi	on Worke	r = 30							
25	ED - Exposure Duration for Inh	alation to Carcinogens							Construction									_
85.81	Q/C - Inverse of the mean con-		are source						85.81; Constr			85.81						
9.50E+08				Resid	dential = 9.5	x10 ⁸ ; Inc	dustrial/C	ommercial	i = 7.9 x 108; (Constructi	on Wo	rker = 3	.6 x 10	_f 6				
0.043	D _i - Diffusivity In Air	•			o[a]pyrene													
4.63E-05	H' - Henry's Law Constant				olajpyrene :		10-5			-								
9.00E-06	D Diffusivity in Water				ojajpyrene :													
1020000	K Organic Carbon Partition	Coefficient			o[a]pyrene													
1020000	Tog - Organic Garbon Fandon	- Cocineicia			o[d]p)iciid	1,020,0												
IndustrialiC	Commercial Ingestion Tier II O	hiective																
		x BW x AT _c x 365	1.0E-06	x	70	J	70		365						.8E+00			
S-3 =		S x EF x ED x IRsoil	7,300					X								=	0.784	mg/kg
ŀ	Si _o X II) XEF XED XIRSOII	7.300	×	1.00E-06	×	250	x	25		×	50		2.	.28E+00			
																		
Construction	on Worker Ingestion Tier II Obj		4.4= 44															
S-3 =		x BW x AT _c x 365	_ = 1.0E-06	х	70	X	70	x	365						1.8E+00	=	17.01	mg/kg
1, ,	Sf _o x	(10 ⁻⁶ x EF x IRsoil	7.300	×	1.00E-06	x	30	x	480					1	.05E-01			
industrial/0	Commercial Inhalation Tier II O	bjective																
S-6 =	* * * * 1	TR x ATc x 365	_ 1.0E-06	X.	70	х .	. 365							_ (0.02555	_	2.11E+02	mg/kg
3-0-	IIDE - 1	000 x EF x ED x 1/VF	1,10E-03	3 x	1000	×	250	x	25	> (1/ :	5.68E+0	, ,		.21E-04	-	2.116402	iliy/ky
1	UKFXI	000 Y F1 Y FD Y 1141	1.106-03	^	1000	^	230	^	29	- (J.JUL 70	, ,	•				

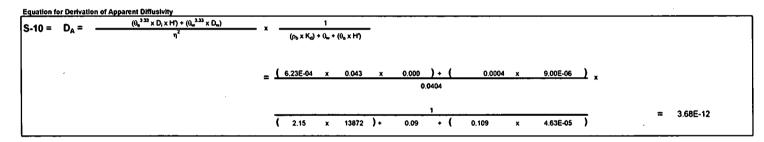
Tier 2 Industrial/Commercial Calculations for Benzo[a]pyrene

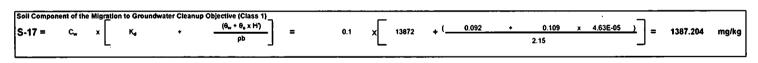
	S & S Infinite Group, Inc DBA Downtown
	2016-1089
nstruction Worker Inhalation Tier II Objective	· -

Construction Worker	Inhalation Tier II Objective					2010-1	***										
S-7 =	TR x ATc x 365	_ = .	1.0E-06	x	70	x	365						_	0.02555	_	2.71E+02	mg/kg
3-7	URF x 1000 x EF x ED x 1/VF		1.10E-03	x	1000	×	30	x	1	,	(1/	3.50E+05)	_	9.43E-05	_	2.7 12402	mg/kg
l .																	

RESIDENTIAL OR COMMERCIAL

S-8 = VF =
$$\frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^4}{(2 \times \rho_b \times D_A)}$$
 = 85.81 $\times \frac{(3.14 \times 3.68E-12 \times 9.50E+08)^{1/2} \times 0.0001}{(2 \times 2.15 \times 3.68E-12)}$ = $\frac{0.0009}{1.58E-11}$ = 56844975.3174





Target Soil Leachate Concentration (Class 1)
$$S-18 = C_{w} = DF \times GW_{obj} = 20.00 \times 0.005$$

$$= 0.1$$

$$Soil-Water Partition Coefficient$$

$$S-19 = K_{d} = K_{\infty} \times I_{\infty} = 1.02E+06 \times 0.014$$

$$= 13872$$

Water-Filled Porosity
$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} = 0.0917$$

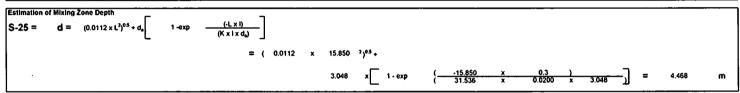
Tier 2 Industrial/Commercial Calculations for Benzo[a]pyrene

S & S Infinite Group, Inc. - DBA Downtown 66

								2010-1009	
Alr-Filled Por	rosity								
S-21 =	Θ _a =	η.	Θ.,	=	0.20	•	0.09	-	0.1090

GW Ingestion	· · · · · · · · · · · · · · · · · · ·												
S.22 =	TR x BW x At, x 365		1.0E-06	x	70	x	70	x	365	= 1.8E+00	_	0.0000	mg/L
3-23 -	SF _o x IR _w x EF x ED	-	7.300	×	1.000	x	250	×	25	45625	_	0.0000	mg/c

Total Soil Porosity
$$S-24 = \eta = 1 \cdot \frac{\rho_0}{\rho_0} = 1 \cdot \frac{2.15}{2.69} = 0.2007$$



	Soil Saturat S-29 =	C _{ast} = $\frac{S}{\rho_b}x$	[(K _d x pb) + Ow + (H' x θa)]	= 1.62E-03 x [(13	3872 x	2.15 } +	0.092	+ (4.63E-05	x 0.10	9)] =	22.47 mg/kg	9
--	------------------------	--	---	---------------------	--------	----------	-------	--------------	--------	---------	-------------	---

Soil Gas (outdoor Inhalation														
S-30 =	ROs q =	ROsoil X H X pb X 1000	. =	22.473	x	4.630E-05	x	2.150	×	1000				= 0.00008	3
3-30 -	NO3 y -	H' X Θa + Θw + Kd X ρb	_	4.630E-05	×	0.109	+	0.092	+	13872.000	Х	2.150		- 0.0000	mg/m³
i													 -		

3

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LEAKING UST TECHNICAL REVIEW NOTES JUL 17 2018

Reviewed by: Scott McGill Date Reviewed: June 4, 2018 Re: LPC #1430650114 -- Peoria County JMR Peoria/S & S Infinite Group, Inc.

400 North East Adams Street

Leaking UST Incident No. 20161089

Leaking UST Technical File

Document(s) Reviewed:

This document consists of a corrective action plan and budget dated March 19, 2018 and received by the Illinois EPA on March 20, 2018 and prepared by CW3M Company, Inc. This plan and budget were prepared in accordance with the 734 requirements and summarized as follows:

General Site Information:

Site subject to: 734

IEMA date(s): «IEMA_Date»	Payment from the Fund? (Y/N/unknown): yes
UST system removed? (Y/N): yes	OSFM Fac. ID #: 20161089
Encountered groundwater? (Y/N/unknown):	SWAP mapping and evaluation completion
yes	date: June 4, 2018
Free product? (Y/N/unknown): no	Site placement correct in SWAP? (Y/N): yes
Current/past land use: vacant lot	Inspection Required? (Date/Plan): no
Size & product of USTs: 1-6,000 diesel fuel, 2-and 1-560 used oil	-10,000 gasoline, 2-350 gasoline, 1-560 diesel
Is site located in EJ area? yes	Is investigation of indoor inhalation exposure route required? no
Has enough sampling been completed to perform a Right-to-Know Evaluation? yes	PLA Checklist Complete? Yes

Corrective Action Plan/Budget Review Notes:

The owner/operator propose a corrective action plan consisting of a Tier 2 evaluation and institutional controls. It should be noted that groundwater was not encountered during early action activities. The proposed institutional controls consist of a worker caution, Industrial/Commercial land use restriction and groundwater use restriction. The location of the worker caution is depicted in Drawing: 0006. The owner/operator propose 4 additional on-site soil borings to determine if additional soil should be removed from the site. The soil borings are depicted in Drawing: 0004A. 3 of the 4 borings will be advanced to a depth of 20 feet. The other soil boring will be advanced to a depth of 20 feet to determine the vertical extent of contamination. Soil samples will be collected at 5-foot intervals and the results will be evaluated for the BTEX, MTBE and PNA constituents. The results will be used to determine the depth of the excavation. Soil excavation activities will be submitted in an amendment to the corrective

Page 2

action plan. Also, a potable well is located on-site and the owner/operator will address abandonment of the well in an amendment to the corrective action plan. Previous analytical soil results are summarized in tables included in Appendix F. The Tier 2 calculations are included in Appendix G.

The corrective action plan budget proposal is included in Appendix D. This amount includes costs in the amount of \$28,643.22. This amount includes costs for advancement of 4 soil borings to a depth of 20 feet including soil sampling for the BTEX, MTBE and PNA constituents, personnel costs and material costs. The following personnel costs lack supporting documentation and should be cut from the budget:

- 1. Costs in the amount of \$5,056.00 associated with a Senior Project Manager for 40 hours to complete corrective action design, report development and IEPA correspondence.,
- 2. Costs in the amount of \$2,022.40 associated with a Senior Project Manager for 16 hours to complete TACO Tier 2 calculations, development of cleanup objectives and groundwater modeling.,
- 3. Costs in the amount of \$3,033.00 associated with a Senior Project Manager for 24 hours to complete budget preparation and data evaluation.,
- 4. Costs in the amount of \$2,085.30 associated with a Senior Accountant Technician for 30 hours to complete reimbursement preparation forms. And
- 5. Costs in the amount of \$1,779.84 associated with a Geologist III to complete reimbursement development, inputs, contractor invoicing and evaluation with budget.

The following cuts should be made to the material costs: Copy costs in the amount of \$165.00, PID rental at \$129.00/day and measuring wheel at \$24.00/day.

Illinois EPA Decision:

The proposed corrective action plan should be approved however the budget proposal should be modified based on the aforementioned cuts to the budget. The owner/operator should submit an amended corrective action plan to address additional soil excavation activities at the site and abandonment of the potable well.

Response Due:

An amended corrective action plan should be submitted to the Illinois EPA.

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LPC 1430650114 - Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident No. 20161089 Leaking UST Technical File

Right-to-Know Evaluation

The Bureau of Land site identified above has been reviewed. A check mark next to any one of the following criteria indicates further evaluation of the site is necessary.

<u>CRIT</u>	ERIA:
	Groundwater contamination is measured or modeled to exceed, within the setback zone or regulated recharge area of a potable Community Water Supply (CWS) well, or setback zone of a private well or non-CWS well, either TACO Tier 1 groundwater remediation objectives under Part 742, Appendix B, Table E or Class I groundwater standards under Part 620; or Five or fewer properties More than five properties
Ü	Measured off-site groundwater contamination from volatile chemicals from the site where a release occurred poses a threat of indoor inhalation exposure above appropriate Tier 1 remediation objectives for the current use of the site; or □ Five or fewer properties □ More than five properties
D D	Soil contamination exceeding applicable remediation objectives for the soil component of the groundwater ingestion route is modeled to exceed, within the setback zone or regulated recharge area of a potable Community Water Supply (CWS) well, or setback zone of a private well or non-CWS well, either TACO Tier 1 groundwater remediation objectives under Part 742, Appendix B, Table E or Class I groundwater standards under Part 620; or Five or fewer properties More than five properties
	Contaminated soil is measured off-site to exceed the appropriate Tier 1 remediation objectives based on the current use of the off-site property; or \Box Five or fewer properties \Box More than five properties
口	Measured off-site soil gas contamination from the site where the release occurred poses a threat of exposure above the appropriate Tier 1 remediation objectives for the current use of the site: or ☐ Five or fewer properties ☐ More than five properties
	BOL refers a matter to the Division of Legal Counsel for enforcement under Section 43(a) of the Act; or
	BOL refers a site to the Division of Legal Counsel for issuance of a seal order under Section 34(a) of the Act.
Comme	ents:
	At least one of the above criteria is met and the above-identified site must be further evaluated.
口	Insufficient information submitted to make an adequate RTK decision.
x	None of the above criteria are met and the above-identified site does not warrant any further evaluation.
Project	Manager Signature (Lower Colid

VI Incomplete Pathway Checklist

Reviewed by: Scott Mo Date Reviewed: June 4	· · · · · · · · · · · · · · · · · · ·	
SECTION 1		
Yes x No	Is there free product exceeding one-eighth of an inch in depth as measured in a groundwater monitoring well?	
Yes x No	Do laboratory analytical results indicate concentrations of indicator contaminants as a result of the release from the UST that exceed the soil saturation (C_{sat}) limit as determined at 35 Ill. Adm. Code 742.220?	
Yes x No	Is there contaminated groundwater (i.e., based upon laboratory analytical results [actual measured concentrations], levels of indicator contaminants as a result of the release from the UST that exceed Tier 1, Class I groundwater remediation objectives for the groundwater component of the groundwater ingestion route at 35 Ill. Adm. Code 742.Appendix B.Table E)?	
If "No" or "N/A" is che (in Section 4) of this che	cked for all three of the above questions, continue with the final question ecklist.	
If "Yes" is checked for any one or more of the three questions above, continue with the questions in Section 2 to assess the potential for PVI.		
SECTION 2		
☐ Yes ☐ No ☐ N/A	Is there an interval of at least five feet of uncontaminated soil between contaminated groundwater and the lowest point of an overlying receptor (building basement, foundation, slab, or crawl space) or ground surface if there is no overlying receptor?	
☐ Yes ☐ No ☐ N/A	Is there an interval of at least 15 feet of uncontaminated soil between C _{sat} soil or free product in a groundwater monitoring well and the lowest point of an overlying receptor (building basement, foundation, slab, or crawl space) or ground surface if there is no overlying receptor?	
	ither or both of the above two questions, investigation of PVI (via the ure route in accordance with Part 742) is required. Continue with	

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Page 2			
		formational purposes only, then go to the Conclusion section and check at investigation of PVI is required.	
		either or both of the above two questions, continue with the question(s) in potential for PVI.	
SECTIO	ON 3		
	es No	Are there natural or man-made pathways that may allow migration of vapors to indoor receptors?	
If "No" i	s checked, co	ntinue with the question in Section 4 to assess the potential for PVI.	
If "Yes"	is checked, co	ontinue with the following question.	
	es No	Has the UST owner or operator provided a 20-Day Certification?	
Continue	with the ques	stion in Section 4 to assess the potential for PVI.	
SECTIO	N 4		
Y	es x No	Are there petroleum vapors in buildings as a result of the release from the UST?	
		l gas sampling is not required. Investigation of PVI (via the indoor ute in accordance with Part 742) is not required.	
	is checked, in 742) is require	vestigation of PVI (via the indoor inhalation exposure route in accordance red.	
CONCL	USION	•	
Based up	on the results	of the current review and the Illinois EPA site-specific Tier 3 evaluation:	
	Investigation of PVI (via the indoor inhalation exposure route in accordance with Part 742) is required.		
x II	Investigation of PVI is not required.		

Electronic Filing: Received, Clerk's Office 1/2/2025

McGill, Scott

From:

McGill, Scott

Sent:

Friday, June 01, 2018 11:25 AM

To:

'vince@cwmcompany.com'

Cc: Subject: Kuhlman, Eric RE: S & S Infinite Group, Inc., Incident No. 20161089

Vince.

Please provide supporting documentation for the following personnel costs within a week. Thanks in advance:

- 1. Costs in the amount of \$5,056.00 associated with a Senior Project Manager for 40 hours to complete corrective action design, report development and IEPA correspondence.,
- 2. Costs in the amount of \$2,022.40 associated with a Senior Project Manager for 16 hours to complete TACO Tier 2 calculations, development of cleanup objectives and groundwater modeling.,
- 3. Costs in the amount of \$3,033.00 associated with a Senior Project Manager for 24 hours to complete budget preparation and data evaluation.,
- 4. Costs in the amount of \$2,085.30 associated with a Senior Accountant Technician for 30 hours to complete reimbursement preparation forms. And
- 5. Costs in the amount of \$1,779.84 associated with a Geologist III to complete reimbursement development, inputs, contractor invoicing and evaluation with budget.



HEIMOIS FLINY IRON MENTAL'S PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

217/524-3300

JUN 2 0 2018

CERTIFIED MAIL

7017 2680 0001 0213 3807

S & S Infinite Group, Inc. Attn: Syed Muneeb 400 North East Adams Street Peoria, IL 61603

IEPA - DIVISION OF RECORDS MANAGEMENT RELEASABLE

SEP 1 8 2018

Re: LPC #1430650114 -- Peoria County

Peoria/S & S Infinite Group, Inc. 400 North East Adams Street

Leaking UST Incident No. 20161089

Leaking UST Technical File

REVIEWER: RDH

Dear Mr. Muneeb:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated March 19, 2018, was received by the Illinois EPA on March 20, 2018. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the budget is modified pursuant to Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734:510(b). Based on the modifications listed in Section 2 of Attachment A, the amounts listed in Section 1 of Attachment A have been approved. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted and shall be made to EPA.FieldNotifications@illinois.gov. This notification of field activities must be provided at least two weeks prior to the scheduled field activities.

Page 2

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Plan that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact Scott McGill at (217) 524-5137.

Sincerely,

Eric A. Kuhlman Acting Unit Manager Leaking Underground Storage Tank Section Division of Remediation Management

Bureau of Land

Attachment: Attachment A Appeal Rights

c: Carol L. Rowe, CWM Company, Inc. (electronic copy) BOL File

Electronic Filing: Received, Clerk's Office 1/2/2025

Attachment A

LPC #1430650114 -- Peoria County Re: Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident No. 20161089

Leaking UST Technical File

SECTION 1

As a result of Illinois EPA's modification(s) in Section 2 of this Attachment A, the following amounts are approved:

\$1,820.00	Drilling and Monitoring Well Costs
\$4,434.28	Analytical Costs
\$0.00	Remediation and Disposal Costs
\$0.00	UST Removal and Abandonment Costs
\$0.00	Paving, Demolition, and Well Abandonment Costs
\$7,944.90	Consulting Personnel Costs
\$149.50	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

SECTION 2

1. \$165.00 for costs for copy charges, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

Pursuant to 35 III. Adm. Code 734.850(b) costs associated with activities that do not have a maximum payment amount set forth pursuant to 35 Ill. Adm. Code 734 Subpart H must be determined on a site-specific basis and the owner/operator must demonstrate to the Illinois EPA the amounts sought for reimbursement are reasonable. The owner/operator has not provided sufficient documentation to support the rate requested for copy charges and/or the quantity of copies requested pursuant to 35 Ill. Adm. Code 734.505(a). The documentation was either not provided or fails to provide sufficient information for the Illinois EPA to make a site-specific reasonableness determination.

In addition, without supporting documentation the rate and/or the quantity of copies requested are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd). It should be noted, the Illinois EPA only requires technical correspondence be submitted in duplicate and only an original for reimbursement correspondence.

2. \$129.00 for costs for PID, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

Pursuant to 35 Ill. Adm. Code 734.850(b) costs associated with activities that do not have a maximum payment amount set forth pursuant to 35 Ill. Adm. Code 734 Subpart H must be determined on a site specific basis and the owner/operator must demonstrate to the Agency the amounts sought for reimbursement are reasonable. The Agency has requested additional documentation to support the rate requested for a PID pursuant to 35 Ill. Adm. Code 734.505(a). The documentation was either not provided or fails to provide sufficient information for the Agency to make a site specific reasonableness determination.

In addition, without supporting documentation for the rate requested the PID costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

- 3. \$24.00 for indirect corrective action costs for a measuring wheel charged as direct costs. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(v). In addition, such costs are not approved pursuant to 35 Ill. Adm. Code 734.630(dd) and Section 57.7(c)(3) of the Act because they are not reasonable.
- 4. Personnel Lacking Supporting Documentation

\$5,056.00 for costs for personnel hours requested under the Senior Project Manager title, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). As there is no supporting documentation for the requested costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o) because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

The Illinois EPA has requested additional documentation to support the personnel hours requested as noted above pursuant to 35 Ill. Adm. Code 734.505(a). The documentation was either not provided or fails to provide sufficient information for the Illinois EPA to make a task-specific reasonableness determination. Without supporting documentation, the personnel hours for Senior Project Manager are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd). In addition, the request appears to be for activities and related services or materials that are unnecessary. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(aa).

Costs in the amount of \$5,056.00 associated with a Senior Project Manager for 40 hours to complete corrective action design, report development and IEPA correspondence lack supporting documentation and these costs are not reasonable as submitted.

5 Personnel Lacking Supporting Documentation

\$2,022.40 for costs for personnel hours requested under the Senior Project Manager title, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). As there is no supporting documentation for the requested costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o) because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

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Costs in the amount of \$2,022.40 associated with a Senior Project Manager for 16 hours to complete TACO Tier 2 calculations, development of cleanup objectives and groundwater modeling lack supporting documentation and these costs are not reasonable as submitted.

6. Personnel Lacking Supporting Documentation

\$3,033.00 for costs for personnel hours requested under the Senior Project Manager title, which lack supporting documentation. Such costs are ineligible for payment from the

Fund pursuant to 35 Ill. Adm. Code 734.630(cc). As there is no supporting documentation for the requested costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o) because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

The Illinois EPA has requested additional documentation to support the personnel hours requested as noted above pursuant to 35 Ill. Adm. Code 734.505(a). The documentation was either not provided or fails to provide sufficient information for the Illinois EPA to make a task-specific reasonableness determination. Without supporting documentation, the personnel hours for Senior Project Manager are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd). In addition, the request appears to be for activities and related services or materials that are unnecessary. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(aa).

Costs in the amount of \$3,033.00 associated with a Senior Project Manager for 24 hours to complete budget preparation and data evaluation lack supporting documentation and these costs are not reasonable as submitted.

7. Personnel Lacking Supporting Documentation

\$2,085.30 for costs for personnel hours requested under the Senior Accountant Technician title, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). As there is no supporting documentation for the requested costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o) because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

The Illinois EPA has requested additional documentation to support the personnel hours requested as noted above pursuant to 35 Ill. Adm. Code 734.505(a). The documentation was either not provided or fails to provide sufficient information for the Illinois EPA to make a task-specific reasonableness determination. Without supporting documentation, the personnel hours for Senior Accountant Technician are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd). In addition, the request appears to be for activities and related services or materials that are unnecessary. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(aa).

Electronic Filing: Received, Clerk's Office 1/2/2025

Costs in the amount of \$2,085.30 associated with a Senior Accountant Technician for 30 hours to complete reimbursement preparation forms lack supporting documentation and these costs are not reasonable as submitted.

8. Personnel Lacking Supporting Documentation

\$1,779.84 for costs for personnel hours requested under the Geologist III title, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). As there is no supporting documentation for the requested costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o) because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

The Illinois EPA has requested additional documentation to support the personnel hours requested as noted above pursuant to 35 Ill. Adm. Code 734.505(a). The documentation was either not provided or fails to provide sufficient information for the Illinois EPA to make a task-specific reasonableness determination. Without supporting documentation, the personnel hours for Geologist III are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd). In addition, the request appears to be for activities and related services or materials that are unnecessary. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(aa).

Costs in the amount of \$1,779.84 associated with a Geologist III for 16 hours to complete reimbursement development, inputs, contractor invoicing and evaluation with budget lack supporting documentation and these costs are not reasonable as submitted.

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Appeal Rights

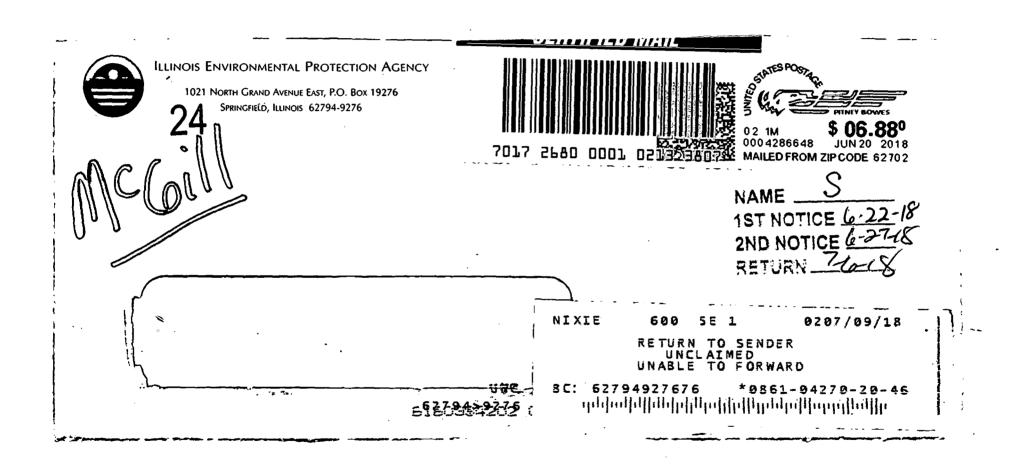
An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

John Therriault, Assistant Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph, Suite 11-500 Chicago, IL 60601 312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency Division of Legal Counsel 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276 217/782-5544



CW M Comp

Environmental Consulting Ser

S & S Infinite Group, Inc. Incident # 20161089 Leaking UST Technical File 701 W. South Grand Avenue Springfield, IL 62704

> Phone: (217) 522-8001 Fax: (217) 522-8009

November 12, 2018

Mr. Scott McGill, Project Manager LUST Section, Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Avenue East Springfield, IL 62794-9276 RECEIVED

NOV 1 3 2018

PERMIT SECTION

RE: LPC #1430650114—Peoria County

S & Sinfinite Group, Inc. - Peoria

400 North East Adams Street Incident Number: 2016-1089

LUST Technical Reports—Amended Corrective Action Plan

Dear Mr. McGill:

Enclosed, please find the Amended Corrective Action Plan (CAP) for the above-referenced site for Incident Number 2016-1089. This CAP includes the actions necessary to address the contamination from the 2016-1089 incident that were not included in the CAP previously approved for the 2014-0963 incident. Once the activities required to address the contamination over Tier 2 Clean-up Objectives found in the 2016-1089 incident are completed, a Corrective Action Completion Report combining the incidents will be prepared and submitted.

If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely

Carol Rowe, P.G.

Senior Environmental Geologist

RELEASABLE

MAR 0 8 2019

REVIEWER JRM

xc: Mr. Syed Muneeb, S & S Infinite Group, Inc. / Downtown 66

Mr. William T. Sinnott, CWM Company, Inc.

The appearance of some of the images following this page is due to

Poor Quality Original Documents

and not the scanning or filming processes.

Com Microfilm Company (217) 525-5860

CORRECTIVE ACTION PLAN & BUDGET AMENDMENT

S&S INFINITE GROUP, INC./ DBA-DOWNTOWN 66 RECEIVED

NOV 1 3 2018

PERMIT SECTION

PEORIA, ILLINOIS LPC #1430560114 — Peoria County

Incident Number 2016-1089

Submitted to:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Leaking Underground Storage Tank Section, Bureau of Land 1021 North Grand Avenue East Springfield, Illinois 62794-9276

Prepared by:

CW³M COMPANY, INC.

701 South Grand Avenue West Springfield, Illinois (217) 522-8001 400 West Jackson, Suite C Marion, Illinois (618) 997-2238

November 2018

Electronic Filing: Received, Clerk's Office 1/2/2025

CW³M Company, Inc.

Amended Corrective Action Plan

S&S Infinite Group, Inc.

LPC #1430560114 Incident Number 2016-1089

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CW³M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

TABLES

Table 1-1. Undergrou	nd Storage Tank Summary	
	liation Objectives	
Table 3-1. Estimated	Excavation Limits	
Table 3-2. Water Sup	oly Well Information	•
)		
i A	ACRONYMS AND ABBREVIATIONS	
BETX has	Benzene, ethylbenzene, toluene, total xylenes	:
CACR	Corrective Action Completion Report	
CAP	Corrective Action Plan	
CA6	Coarse Aggregate 6	,
Csat	Soil saturation limit	٠.
CUO	Clean-up Objective	٠
CW ³ M	CW ³ M Company, Inc.	•
CWS	Community Water Supply	•
IEMA.	Illinois Emergency Management Agency	•
IEPA	Illinois Environmental Protection Agency	•
Ill. Adm. Code	Illinois Administrative Code	٠.
ISGS	Illinois State Geological Survey	•
ISWS	Illinois State Water Survey	
LUST	Leaking Underground Storage Tank	٠
MTBE	Methyl tert-butyl ether	
NFR	No Further Action Report	
OSFM:	Illinois Office of the State Fire Marshal	
PNA (Polynuclear Aromatic Hydrocarbon	
SICR	Site Investigation Completion Report	
SWAP	Source Water Assessment Program	
TACO	Tiered Approach to Corrective Action Objective	е
UST	Underground Storage Tank	

CW³M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

1. SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

This Amended Corrective Action Plan (CAP) and Budget has been prepared in accordance with the requirements of the 35 Illinois Administrative Code (III. Adm. Code) 734. The Illinois Environmental Protection Agency (IEPA) Corrective Action Plan Form is included in this document as Appendix A.

Mr. Syed Muneeb, owner of the underground storage tanks (USTs) at the site, known as S&S Infinite Group, in Peoria, Illinois reported a release to the Illinois Emergency Management Agency (IEMA). Incident Number 2016-1089 was assigned to the notification on November 21, 2016. Mr. Syed Muneeb ultimately requested CW³M Company, Inc. (CW³M) to proceed with the reporting and early action requirements in accordance with 35 Ill. Adm. Code § 734.

The 20-Day Certification was submitted to the IEPA on December 2, 2016 (CW³M, 2016). A 45-Day Extension Request was submitted to the IEPA on December 20, 2016 (CW³M, 2016a) and was approved on December 28, 2016 (IEPA, 2016). A 45-Day Report was submitted to the IEPA on January 19, 2017 (CW³M, 2017) and was approved on January 26, 2017 (IEPA, 2017). A 45-Day Report Addendum was then submitted to the IEPA on February 10, 2017 (CW³M, 2017a) and was approved on May 17, 2017 (IEPA, 2017a). A Site Investigation Completion Report (SICR) was submitted to the IEPA on October 10, 2017 (CW³M, 2017b) and was approved February 2, 2018 (IEPA, 2018a). A CAP was submitted to the IEPA on March 20, 2018 (CW³M, 2018) and approved on June 20, 2018 (IEPA, 2018b). A previous incident had occurred on site, 2014-0963, and had a CAP to address the contamination from its incident was submitted July 2, 2015 (Marlin, 2015), and approved on July 21, 2015 (IEPA, 2015).

This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation was performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as S & S Infinite Group, Inc. / DBA - Downtown 66 is located at 400 North East Adams Street, Peoria, Peoria County, Illinois 61603. The site is located in the NE ¼ of the NE ¼ of Section 9, Township 8 North of the Centralia Baseline and Range 8 East of the Fourth Principal Meridian.

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CW⁸M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

1.3 UNDERGROUND STORAGE TANK INFORMATION

A permit for the removal of seven USTs was approved by the Office of the State Fire Marshal (OSFM) on December 12, 2016 (OSFM, 2016). Tank removal activities were conducted by CW³M personnel on January 3, 2017 through January 5, 2017. OSFM Tank Specialist Jim Coffey was on site to oversee the removal of the USTs.

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- 134 ± 144 - \$45 **/6** ± 144

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CW³M personnel were on site from January 4, 2017 through January 6, 2017, and January 9, 2017 through January 12, 2017 to complete early action activities, including removal of contaminated backfill material and replacement of clean fill to the UST excavation area. As the OSFM Field Specialists have been instructed not to make the official determination of the release in the field, the source of release has been determined in consult with the OSFM Field Specialist using the best professional judgment of the condition of tank, piping, and soil conditions.

- Tank 1: This fiberglass UST was abandoned in place in 2014 as part of a separate incident. Its details are listed on the next page in Table 1-1.
- Tank 2: This fiberglass UST was abandoned in place in 2014 as part of a separate incident. Its details are listed on the next page in Table 1-1.
- Tank 3: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this fiberglass UST was a result of piping leaks and overfilling.
- Tank 4: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank had visual holes.
- Tank 5: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank had visual holes.
- Tank 6: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank showed signs of pitting.
- Tank 7: OSFM Tank Specialist Jim Coffey in conjunction with CW³M personnel determined the release from this steel UST was a result of tank leaks as this tank showed signs of pitting.

Table 1-1. Underground Storage Tank Summary

Tank	Tank	Tank	Incident	Release	Current
Number	Volume	Contents	Number	Information 🐎 🦠	Status

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CW⁸M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

	(gallons)				
1	6,000	Diesel	2014-0963	Unknown	Removed 1/5/17
2	. 10,000	Gasoline	2014-0963	Unknown (Removed 1/5/17
3	10,000	Gasoline	2016-1089	Overfilling/Piping Leaks	Removed 1/4/17
4	350	Gasoline	2016-1089	Tank Leaks	Removed 1/3/17
5	; 350	Gasoline	2016-1089	Tank Leaks	Removed 1/3/17
6	560	Diesel	2016-1089	Tank Leaks	Removed 1/3/17
7	560	Used Oil	2016-1089	Tank Leaks	Removed 1/3/17

1.4 EARLY ACTION SUMMARY

Samples were collected for every 20 feet of the excavation walls. Floor samples were obtained at the base of the tanks at a depth of around 12 feet. Samples for the piping trench of tank 3 were also taken every 20 feet at a depth of approximately 3 feet. Because tanks 1 and 2 were previously associated with Incident Number 2014-0963, the soil in the tank pit containing tanks 1, 2, and 3 was known to be contaminated. For this reason, the only samples taken from this pit were at the floor of tank 3 as well as the surrounding walls. The soil removed during the excavation of these three tanks was returned to the excavation after sampling had been completed.

All early action soil samples were collected and analyzed for benzene, ethylbenzene, toluene and total xylenes (BETX) and methyl tert-butyl ether (MTBE) contaminants. The wall samples and floor samples associated with tanks 4 through 7 were additionally analyzed for Polynuclear Aromatic Hydrocarbon (PNA) contaminants, due to the contents of the tanks. The floor of the used oil tank 7 was also sampled for used oil parameters. As previously stated, all tanks and product piping were removed. A total of 365.72 tons (243.81 cubic yards) of contaminated backfill was removed and taken to Indian Creek Landfill in Hopedale, Illinois for disposal. Analytical results and a map of the contaminants can be found in Appendix F and Appendix B, respectively. These activities were documented in the 45-Day Report (CW³M, 2017) and the 45-Day Report Addendum (CW³M, 2017a).

1.5 SITE INVESTIGATION SUMMARY

CW^aM Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

On July 26, 2017 CW³M personnel were on site to conduct Stage 1 investigation activities. Two soil borings (24 and 25) were drilled and sampled, with boring 24 to a depth of 25 feet and boring 25 to a depth of 20 feet. Soil boring 24 was intended to be converted to a monitoring well to determine if contaminants from sample 11 had been in contact with groundwater. When no water was reached by 25 feet only soil samples were obtained. Since a groundwater investigation could not be performed, SB-24 was advanced to define the vertical extent of soil contamination. Once the groundwater level was determined to be lower than 25 feet, no more wells were attempted. Soil boring 25 was drilled to determine the horizontal extent of contamination from sample 11. Benzo(a) pyrene was exceeded at sample 24 but below Clean-up Objectives (CUOs) at sample 25A and B.

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One reason for the large change in groundwater level elevation from this incident, below 25 feet, and the previous incident, at around 13 feet, could be due to the site's location and unusually dry summer. The site is very near the Illinois River which could have huge changes in the groundwater level from changes in the river. Soil samples were analyzed for BETX, MTBE, and PNA indicator parameters. Laboratory analytical results and a table summarizing the results are included in Appendix F, while soil boring logs are included in Appendix E. At the end of Stage 1 investigation, the soil plume was fully defined on site and groundwater was not encountered. The site investigation activities were documented in the SICR (CW³M, 2017b).

2. REMEDIATION OBJECTIVES

2.1 DETERMINATION OF CLEAN-UP OBJECTIVES

In accordance with 35 Ill. Adm. Code 734.410, remediation objectives will be determined in accordance with 35 Ill. Adm. Code § 742. During the previous incident on this site #2014-0963 a Tiered Approach to Corrective Action Objectives (TACO) sample was taken as part of the CAP for that incident. For this incident the site specific physical parameters that were presented in the CAP for incident 2014-0963 (Marlin, 2015) are being used for incident 2016-1089.

The parameters that have been determined are:

Soil bulk density (r_b) , 2.15 g/cm³ Soil particle density (r_s) 2.69 g/cm³ Moisture content (w), 9.4% Organic carbon content (f_{oc}) .0136 g/g Hydraulic Conductivity 8.64 cm/day = 1.00 X 10⁴ cm/sec

CW^BM Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

For the previous incident groundwater was encountered during drilling but never encountered after drilling. For the 2016-1089 incident, groundwater was not encountered. Since no groundwater was found, the assumed hydraulic gradient is 0.02.

2.2 SOIL AND GROUNDWATER OBJECTIVES

The soil objectives are listed for the site below in tabular format. With the TACO Tier 2 CUOs calculated, an industrial / commercial use restriction will be placed on the property and a groundwater ordinance will be placed on the site and the affected offsite properties. The calculations and the modeling of the existing contamination from incident 2016-1089 are included in Appendix G. The TACO inputs for plume width and length are shown on Drawing 0010 in Appendix B.

Table 2-1. Soil Remediation Objectives

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		<u> </u>
Parameter	TACO	TACO
	Residential	Industrial,
	Tier 1	Commercial Tier 2
	Clean-up Objective	Clean-up Objective
	(mg/kg)	(mg/kg)
Benzene	0.03	3.70
Ethylbenzene	13.0	749.91
Toluene	12.0	535.89
Total Xylenes	5.6	73.45
Methyl tert-butyl ether	0.32	249.86
Acenaphthene	570	1. 1
Acenapthylene	30	, <u>, , , , , , , , , , , , , , , , , , </u>
Anthracene	12,000	
Benzo(a)anthracene	- 0.9	<u>-</u>
Benzo(a)pyrene	0.09	0.784
Benzo(b)flouranthene	0.9	
Benzo(g,h,i)perylene	160	2 30 To 10
Benzo(k)flouranthene	9	9 T
Chrysene	88	/, i, -)
Dibenzo(a,h)anthracene	0.09	2 → ·
Flouranthene	3,100	3. 3. -3.
Fluorene	560	i: i - i
Indeno(1,2,3-c,d)pyrene	0.9	\(\frac{1}{2}\frac{1}
Naphthalene	1.8	2.54
Phenanthrene	280	1. g = 10
Pyrene	2,300	
Pyrene	2,300	

CW⁸M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

3. CORRECTIVE ACTION PLAN

The following CAP Amendment and Budget has been prepared by CW³M²Company, Inc., as their recommendation for the most appropriate and economical approach to the remediation of the contamination at the S & S Infinite Group, Inc. / DBA – Downtown 66 in Peoria, Illinois.

Based upon the analytical data from the soil samples collected on-site, it is apparent that soil contamination above the TACO Tier 2 calculated CUOs soil saturation limit was found on site for the current incident at sample location WC-1. The WC-1 sample is included because soil was not removed during early action from the tank pit from which these samples were taken. Soil contamination is confined to the site, and no groundwater contamination was found. All site investigation details were presented in the SICR (CW³M, 2017b).

Soil sample WC-1 exceeds the TACO Tier 2 soil saturation limit for total xylenes, so remediation must occur at that location. Sample WC-3 also has exceedances for industrial / commercial inhalation and construction worker inhalation CUOs. From the results of the soil samples proposed in the last CAP the soil contamination has been defined horizontally and vertically. The soil borings from the previous CAP show that while there is soil contamination at SB-26, SB-28, and SB-29, all the contamination is under Tier 2 CUOs a The areas around WC-1 and WC-3 are being proposed to be excavated to a depth of 10 feet due the two samples being taken at 7.5 feet and the results from SB-27 showing the ten to fifteen-foot zone beneath WC-1 below the CUOs. Drawing 0007 depicts the limits and total volume of the proposed excavation.

After the excavation is completed the excavation walls and floor will be sampled to re-evaluate the need for instituting any additional restrictions on site. The migration conditions for soil to groundwater contamination will be addressed as previously stated with a groundwater ordinance to address groundwater contamination at the S&S Infinite property and surrounding properties. Two samples are being proposed to be obtained from the floor of the excavation, and six wall samples are proposed with 2 from each of the northern and southern walls and 1 from each of the eastern and western walls. These samples are to determine if contamination over Tier 2 CUOs has spread past the border of the proposed excavation area. This sampling arrangement is proposed so that samples are obtained from a spacing no more than twenty feet apart.

A waste characterization sample will be drilled and sampled with the proposed excavation area to determine parameters for disposal of the contaminated soil. The contaminate soil will be excavated by use of a trackhoe (e.g., caterpillar 322 or equivalent). A backhoe or endloader will be employed for loading contaminated soil onto trucks. The loader will also be used to place clean backfill. Sloping or benching will be conducted where necessary to protect excavation walls. The excavated area will be capped with six inches of CA6 (Coarse Aggregate 6). The area for excavation is shown on Drawing 0007 in Appendix B.

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CW³M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

Table 3-1. Estimated Excavation Limits

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Description	Disposal	Sq. Feet	Depth	Bulkin	g Cu. Yds.
Excavation	Landfill	1853	0' - 10'	1.05	721
TOTALS			•	· .	<i>3</i> 721

CW³M Company, Inc. personnel will be on-site during all remediation activities to perform contractor coordination and scheduling, maintenance of manifests, and all required technical documentation, sample collection and oversight of work for compliance with the approved CAP.

At the close of each day, if the excavation remains open, the excavation area will be scraped clean, shored up and protected from access with use of caution fences and barricades. Should excavation activities cause a dust control or nuisance problem, measures such as wetting will be employed to mitigate fugitive dust. Throughout the excavation, the access truck paths will be scraped clean to prevent tracking of soil onto the street. Should tracking still occur, the street or highway will also be scraped clean.

A safe distance will be maintained near structures (e.g., sidewalks, roadways, utilities and/or property boundaries) and, where weak soils are encountered, by sloping the excavation at a 1:1 slope. Should excavation walls begin to collapse, measures will be taken to secure them, and they will be benched back until a stable wall slope is achieved.

Soil to groundwater modeling in accordance with 35 III. Adm: Code § 742 has been conducted, and shows groundwater contamination could travel upwards of 64 feet in any direction for the remaining contamination after the excavation is complete. Since groundwater was never found at the site it is unclear which direction groundwater flows in so flow in all directions will be assumed.

With the removal of the highly contaminated soil in the area of Tank 1, the remaining contamination found at the site would model onto off site properties. To address the potential CW³M proposes a groundwater ordinance for the affected properties and the affected right-of-ways of North East Adams Street and Spalding Avenue. The only additional restriction required would be a construction worker caution in the area of early action sample 11.

The attached Budget includes the preparation of this report, as well as the preparation of the CACR. The recording of the No Further Remediation (NFR) letter is also included in the proposed budget.

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CW⁸M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

3.1 CURRENT AND PROJECTED USES OF THE SITE

The site is located near downtown Peoria and is surrounded by both commercial properties and townhomes; the site lies a few blocks north of Peoria Lake/Illinois River Currently, the site is closed and there are no known plans on it for the future until such time as environmental issues are resolved. The likely usage would be commercial or industrial.

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3.2 INSTITUTIONAL CONTROLS PROPOSED

The site has public water and after the investigation of water well 74200, it is not within the setback of any known potable well, so a groundwater ordinance is being proposed for the all the affected properties. A Tier 2 Industrial-Commercial use restriction will be imposed on the site. The only additional restriction required would be a construction worker caution in the area of early action sample 11. Since an excavation is proposed to eliminate all contaminated soil above Tier 2 CUOs in the area around WC-1 and WC-3, sampling of the floor and wall of the excavation will be conducted to further determine the need for restrictions on the site.

3.3 WATER SUPPLY WELL SURVEY

A survey of water supply wells for the purpose of identifying and locating all community water supply (CWS) wells within 2,500 feet of the UST system and all potable water supply wells within 200 feet of the UST system has been completed. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program (SWAP) online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed online on October 6, 2016 (EPA.STATE.IL.US, 2016). The response indicated that twenty ISGS wells are located within 2,500 feet of the site. The site is within the setback of 2 of the potable wells listed on Table 3-1. Well 43700 is described as an engineering well in the listing. Well 74200 was described as a water well installed by a creamery. CW³M has contacted the current owner of the former creamery site, who stated that only city provided water was used at the facility, and they did not believe that the well still existed. On August 23, 2018, a letter was sent to the Peoria Public Health Department requesting any information on the water well. On August 29, 2018, a reply was received stating that they had no records of the water well. Documentation of the correspondence sent and received are included in Appendix H. On September 4, 2018, CW³M personnel went to the creamery site to check for the presence of the water well but found no evidence of the well. With the investigation of the well yielding no verification of the well it has been determined that the well no longer exist or is no longer able to be used.

CW⁸M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

Table 3-2. Water Supply Well Information

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Well ID	Туре	Distance From	Depth	Setback Zone
:		USTs	(feet)	(feet)
		(feet)	No.	
73600	ISGS	2,300	98	200
74900	ISGS_	2,250	70	200
74600	ISGS	1,929	90	200
73800	ISGS	1,623	67	200
73100	ISGS	1,477	62	200
74100	ISGS	823	87	200
75000	ISGS	854	877	200
48100	ISGS	746	29	200
75200	ISGS	731	47	200
41600	ISGS	1,710	36	200
44600	ISGS	1,240	37	200
44100	ISGS	1,240	75 高 37 - 英家	200
44700	ISGS	855	44 🕳	200
43700	ISGS	140	36 ₹	200
45100	ISGS	253	51	200
74200	ISGS	185	73 🔞	200
43500	ISGS	463	42	200
40500	ISGS	2,283	34	200
99700	ISGS	2,070	71	² 200
44300	ISGS	900	36	

3.4 CLOSURE

Upon approval of the CAP and Budget and implementation of the proposed activities, the excavation wall and floor samples will be evaluated to determine the need for using additional restrictions or additional remediation on site, if warranted. Once all CAP activities conclude, a Corrective Action Completion Report (CACR) for both incidents at the site will be submitted to the IEPA. The closure report will be accompanied by a certification from an Illinois Registered Professional Engineer.

CW³M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

4.0 REFERENCES

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CW⁸M Company, Inc. Amended Corrective Action Plan S&S Infinite Group, Inc. LPC #1430560114 Incident Number 2016-1089

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Marlin, 2015. Marlin Environmental, Corrective Action Plan (2014-0963), S&S Infinite Group, Peoria, Illinois, July 2, 2015.

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APPENDIX A CORRECTIVE ACTION PLAN FORM

CORRECTIVE ACTION PLAN AMENDMENT S&S Infinite Group Peoria, Illinois



Illinois Environmental Protection Agency

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Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program (1875) Corrective Action Plan (1876)

A.	Site Identification 1	•		
	IEMA Incident # (6- or 8-digit): 20161089	IEPA LPC#	(10-digit): 143056011	14
	Site Name: S&S Infinite Group, Inc./ DBA- Downtown 66	·	4 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	
	Site Address (Not a P.O. Box): 400 North East Adams Street	Total (Care)		
	City: Peoria County: Peoria	· ·	ZIP Code: 61603	
_	· · · · · · · · · · · · · · · · · · ·	90	क सुँह । भ	
В.	Site Information	18.00 m	्रम् ६० ५	,
	1. Will the owner or operator seek reimbursement from the Unde	rground Storage	Tank Fund?	Yes 🗌 No
	2. If yes, is the budget attached? Yes No	สาที่รับ กลักได้เก็บ	क्षेत्र को बहुत हो। इ. १४ में १९	
	3. Is this an amended plan? ☐ Yes ☑ No		A Sept Sept	
	4. Identify the material(s) released: Gasoline, Diesel Fuel, Use	d Oil	. (1) (1) (4) (4) (5) (5) (6) (6) (6) (6) (6) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	
	5. This Corrective Action Plan is submitted pursuant to:		· · · · · · · · · · · · · · · · · · ·	
		n Seiter	<u> </u>	·II/ED
	a. 35 III. Adm. Code 731.166	□	RECE	IVED
	The material released was:			
	-petroleum			
	-hazardous substance (see Environmental Protection Act Section 3.215)		1EDA	VBOL
	b. 35 III. Adm. Code 732.404			
	c. 35 III. Adm. Code 734.335	· ; ·	4 Mg 2	
	••		1400	
C.	Proposed Methods of Remediation			
	1. Soil Tier 2 Industrial/Commercial CUOs, Construction Worker	Caution, future	excavation	
	2. Groundwater Groundwater use restriction, Highway Authority		- W M	
D.	Soil and Groundwater Investigation Results			
	(for incidents subject to 35 III. Adm. Code 731 only or 732 that were classif	fied using Method		usly provided)
	Provide the following:	**	11 8	
	1. Description of investigation activities performed to define the e	xtents of soil and	d/or groundwater conta	amination;
	Analytical results, chain-of-custody forms, and laboratory certif	ications;	· · · · · · · · · · · · · · · · · · ·	
	3. Tables comparing analytical results to applicable remediation of	objectives;		

IL 532 2287 LPC 513 Rev. July 2007 Corrective Action Plan
Page 1 of 4

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- 4. Boring logs;
- 5. Monitoring well logs; and
- 6. Site maps meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

- 1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
- Identification of the remediation objectives proposed for the site;
- 3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
- 4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
- 5. A description of the current and projected future uses of the site;
- 6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans, and
 - c. maps showing area covered by barriers and institutional controls;
- 7. The water supply well survey:
 - a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well:
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1
 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified, and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

Corrective Action Plan
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- 8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
- 9. Site map(s) meeting the requirements of 35 III. Adm. Code 732.110(a) or 734.440;
- 10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
- 11. A description of bench/pilot studies;
- 12. Cost comparison between proposed method of remediation and other methods of remediation;
- 13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
- 14. Provide documentation to demonstrate the following for alternative technologies:
 - a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

- 1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 III. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a pH \leq 2.0 or \geq 12.5; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 III. Adm. Code 721:124.
- 2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, 的權力 address, and telephone number.

UST Owner or Operator	Consultant & & & & & & & & & & & & & & & & & & &
Name S & S Infinite Group, Inc.	Company CWM Company, Inc.
Contact Syed Muneeb !	Contact Carol L. Rowe, P.G.
Address 400 North East Adams Street	Address 701 W. South Grand Avenue
City Peoria	City Springfield
State Illinois	State Illinois
Zip Code 61603	Zip Code 62704
Phone (309) 453-2280 /	Phone (217) 522-800 1 7
Signature	Signature
Date 11/3/18/	Date Novembar 13, 2018
	Email: cwm@cwmcompany.com

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Vince E. Smith, P.E.
Company CWM Comapny, Inc.
Address 701 W. South Grand Avenue
City Springfield '
State Illinois
Zip Code 62704
Phone (217) 522-8001
III. Registration No. <u>662 - 046/18</u>
License Expiration Date ///30//9
Signature Le Smith
Date ///2 //8 [‡]

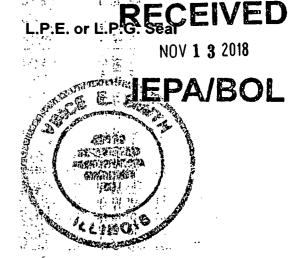


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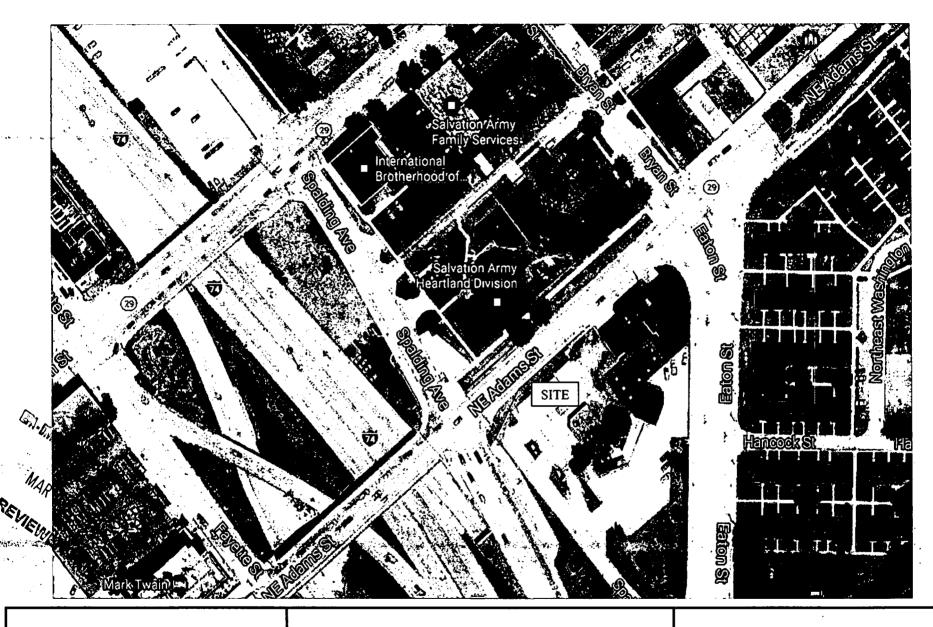
11.5 10.8

APPENDIX B SITE MAPS AND ILLUSTRATIONS

CORRECTIVE ACTION PLAN AMENDMENT S&S Infinite Group Peoria, Illinois

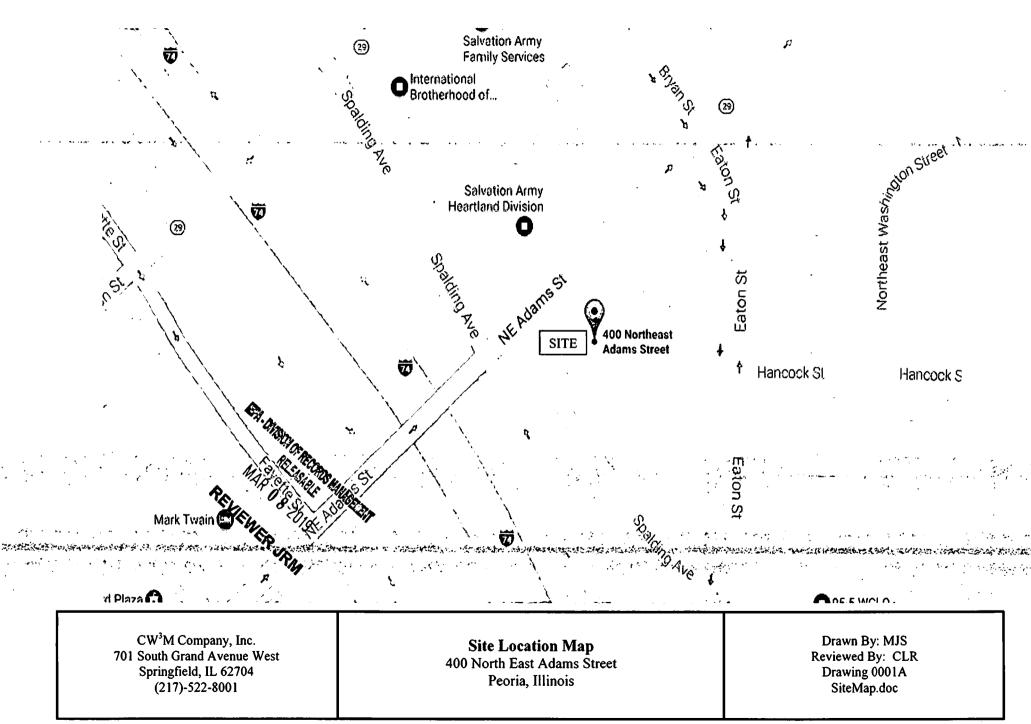
INDEX OF DRAWINGS

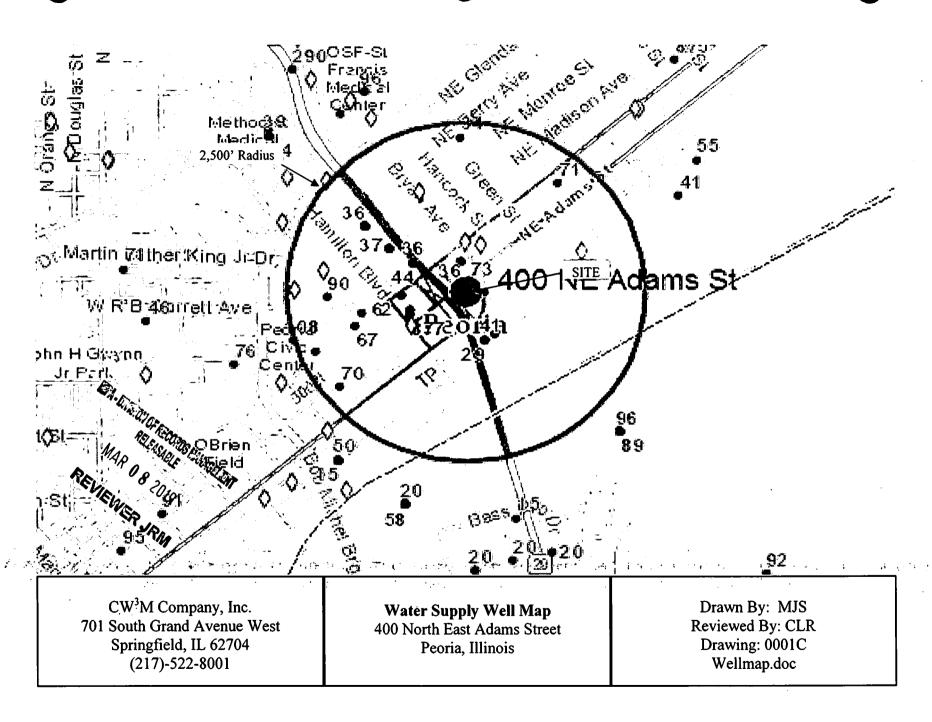
Drawing	Description S -
Number	<u> </u>
0001A	Site Location Map
0001B	Surrounding Populations Map
0001C	Water Supply Well Map
0002	Site Map
0003A	Early Action Excavation Map
, 0003B	Early Action Sample Location Map
0004	Soil Boring Location Map
. 0005A	Soil Contamination Values Map (0-5 feet)
0005B	Soil Contamination Values Map (5-10 feet)
0005C	Soil Contamination Values Map (10-15 feet)
0005D	Soil Contamination Values Map (15-20 feet)
0006	Soil Contamination Plume Map
0007	Proposed Excavation Area Map
0008	Proposed Construction Worker Caution Zone Map
0009	Proposed Groundwater Ordinance Map
0010	TACO Parameters Map
0011	TACO Modeling Map
0012	Highway Authority Agreement Map

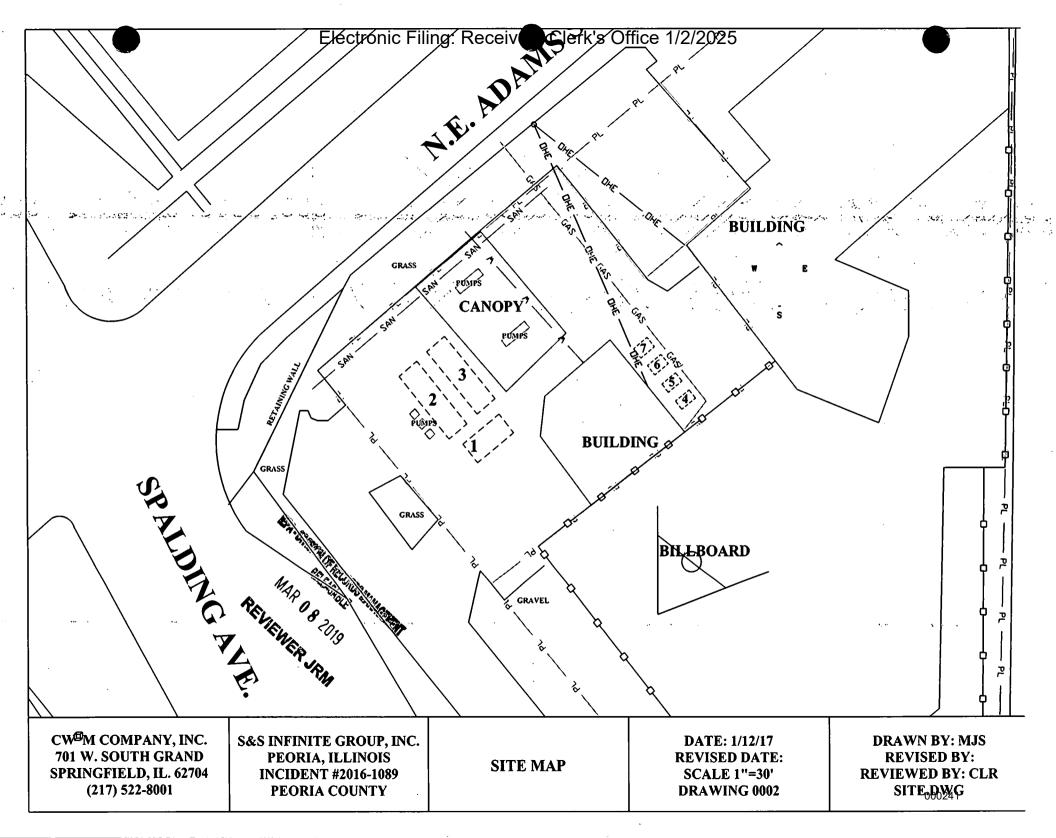


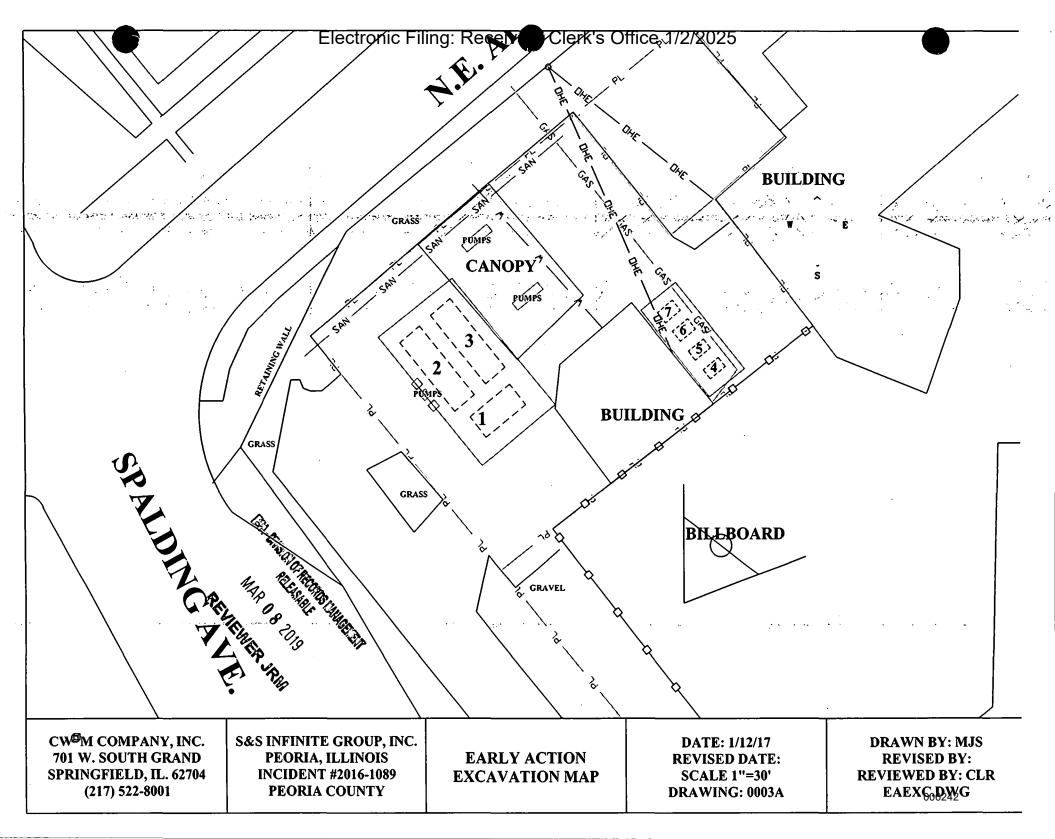
CW³M Company, Inc. 701 South Grand Avenue West Springfield, IL 62704 (217)-522-8001

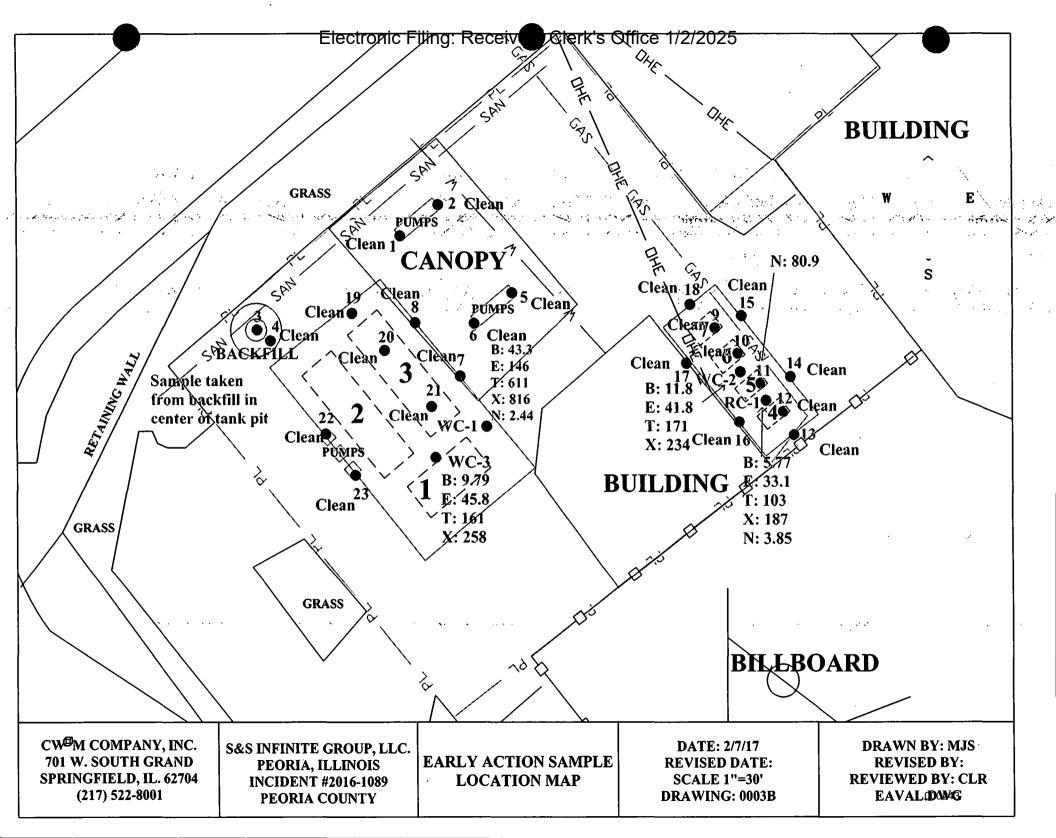
Surrounding Populations Map 400 North East Adams Street Peoria, Illinois Drawn By: MJS Reviewed By: CLR Drawing 0001B SP.doc

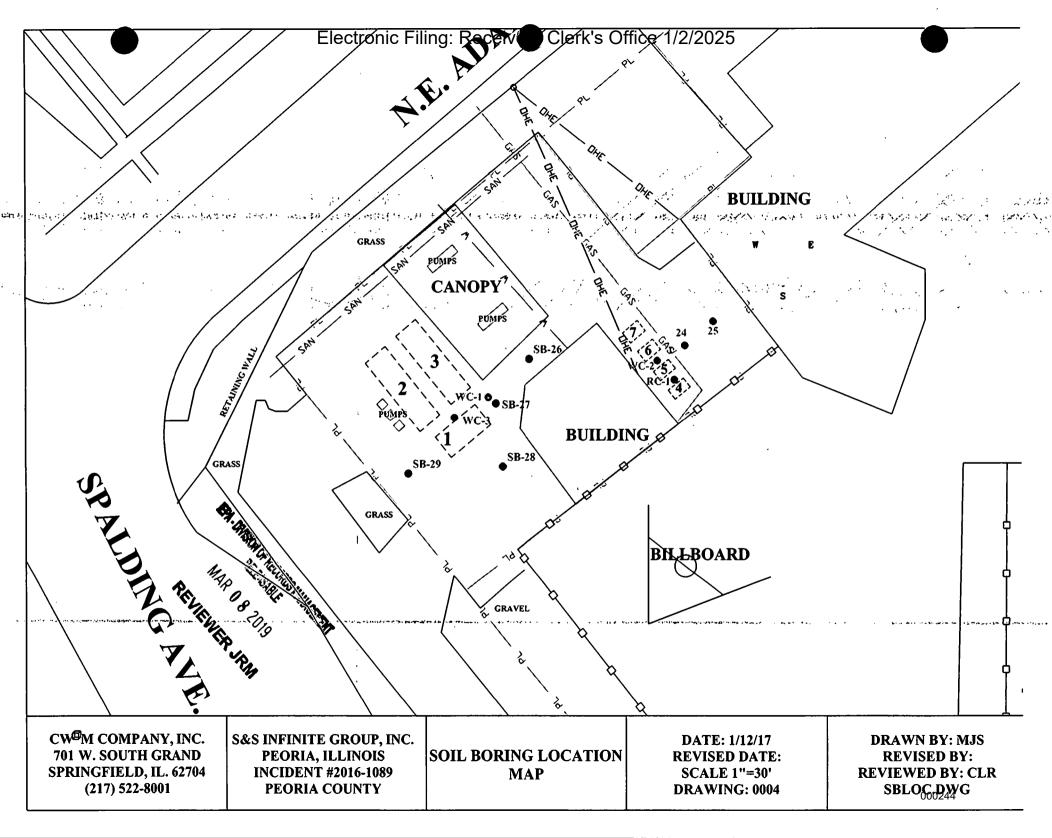


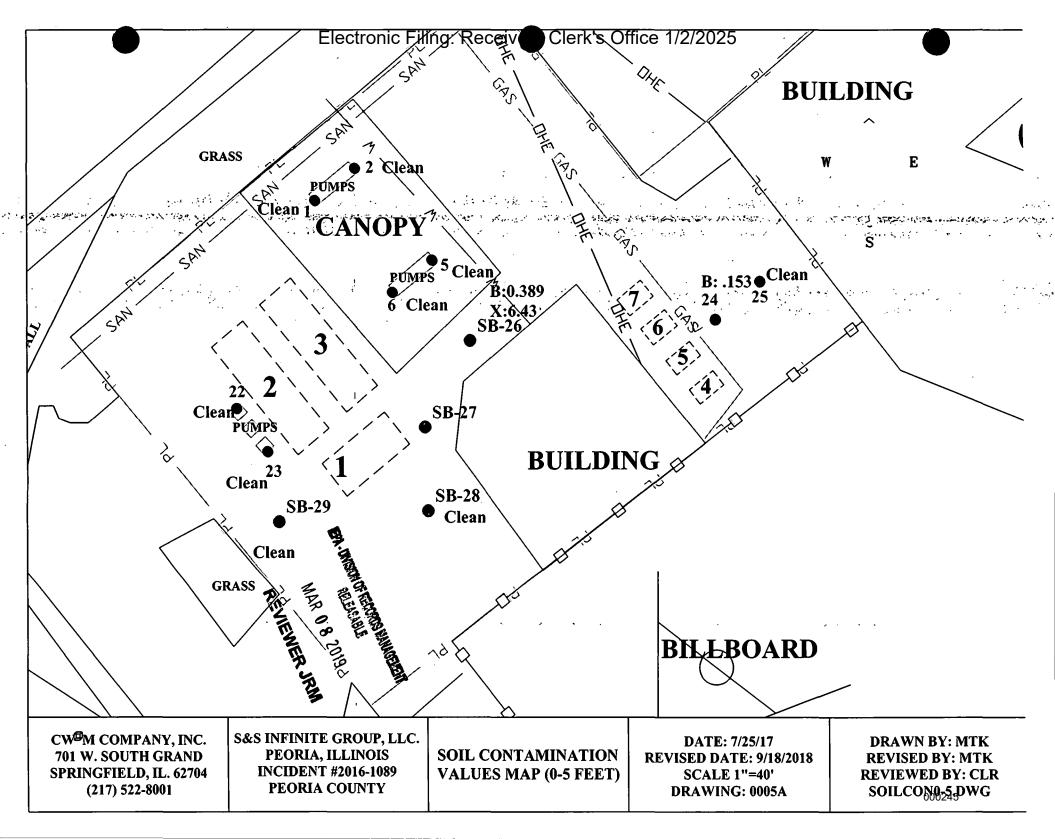


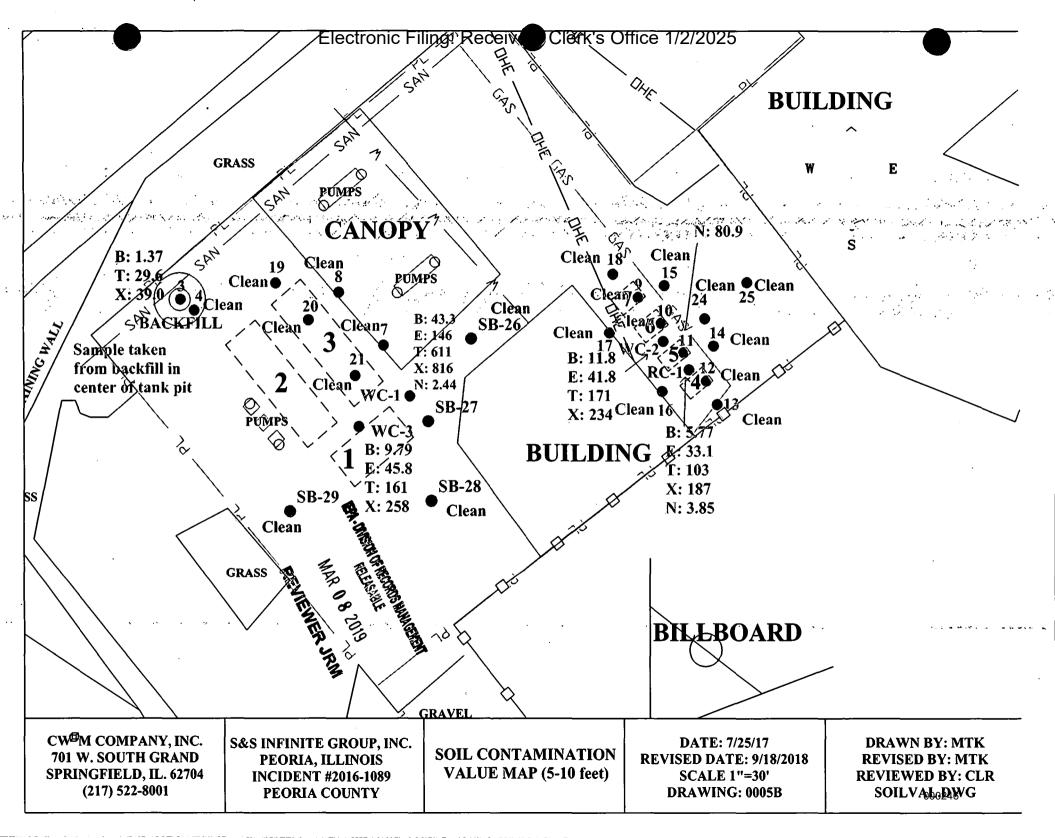


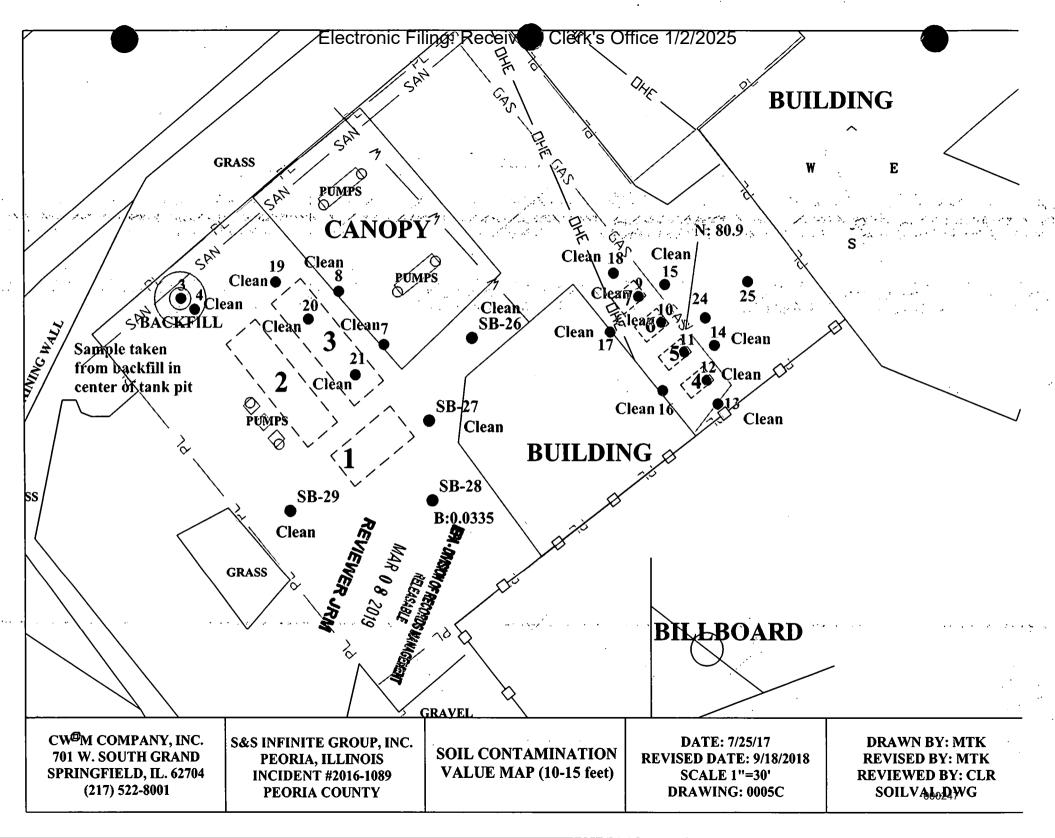


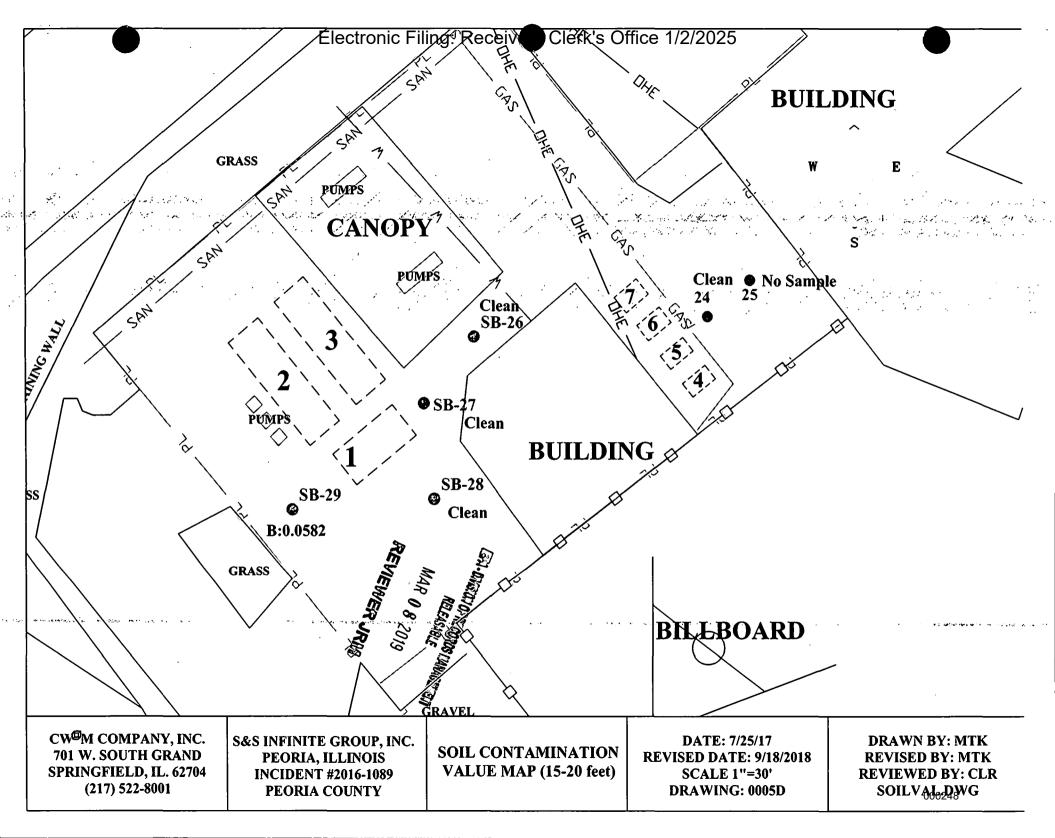


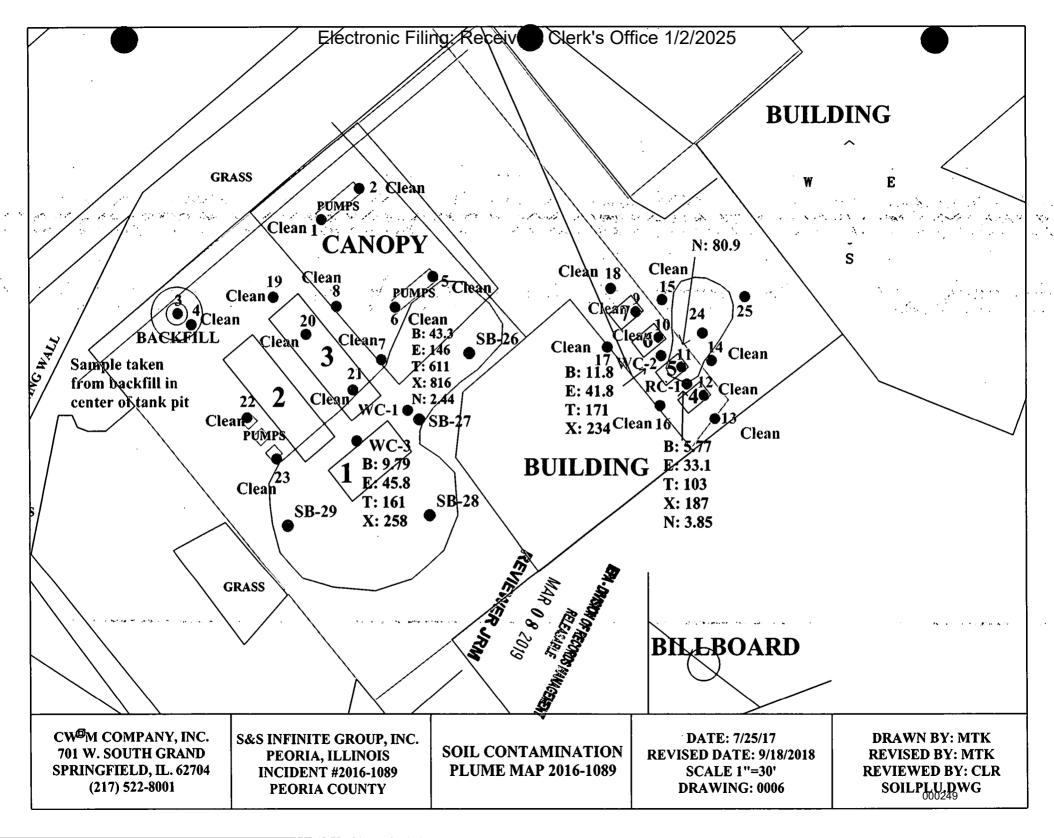


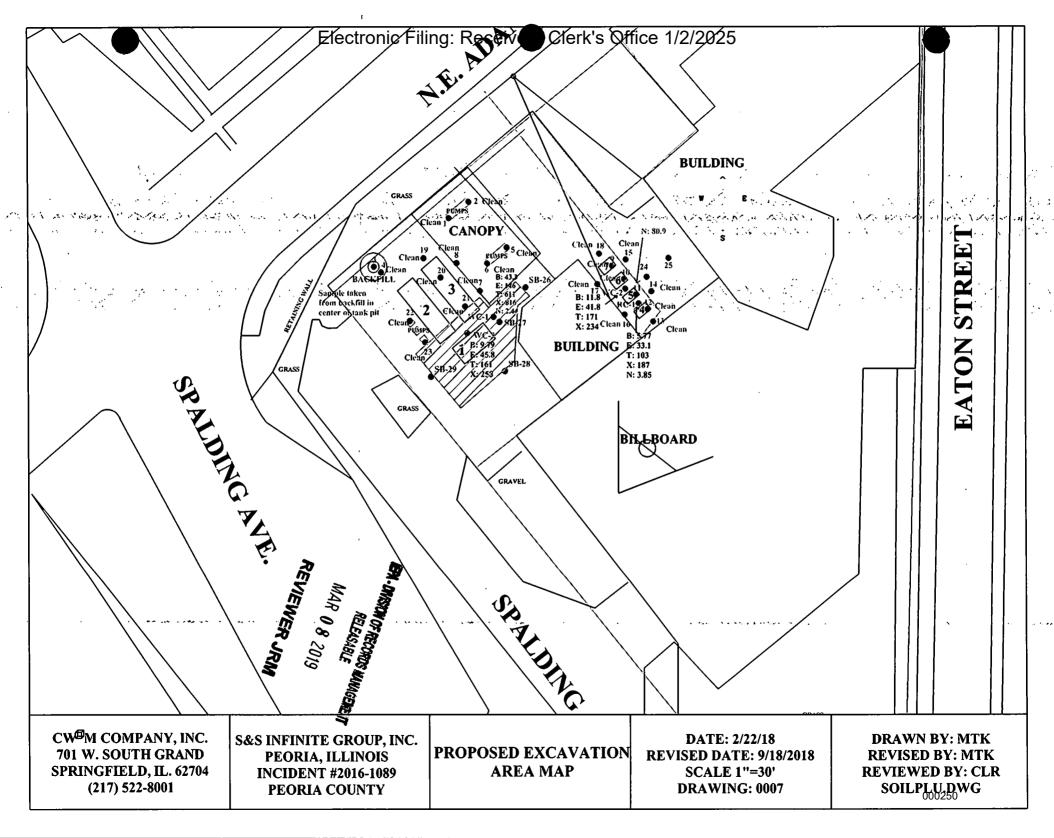


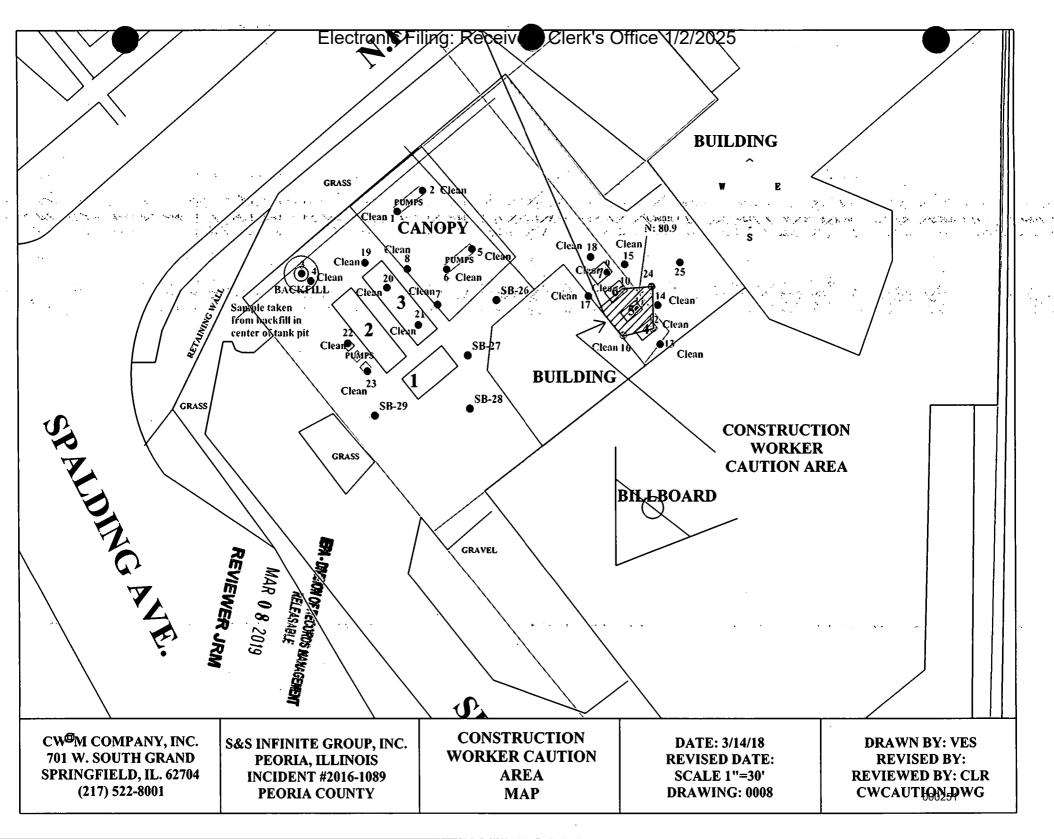


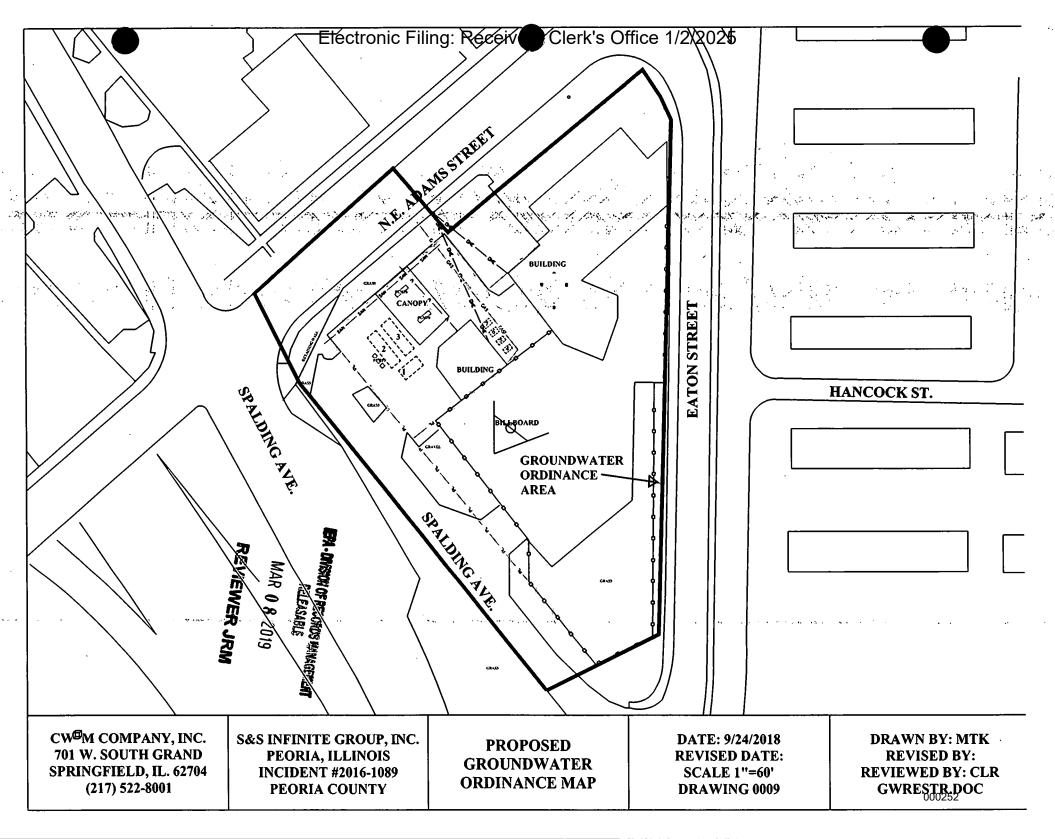


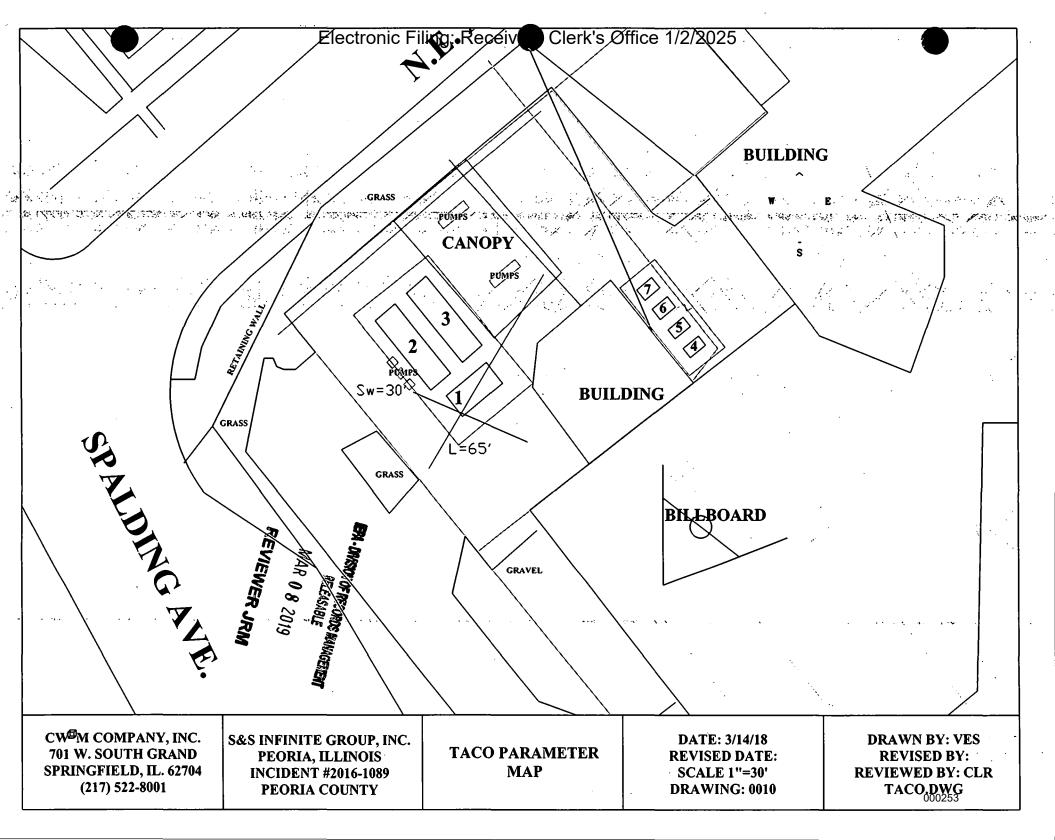


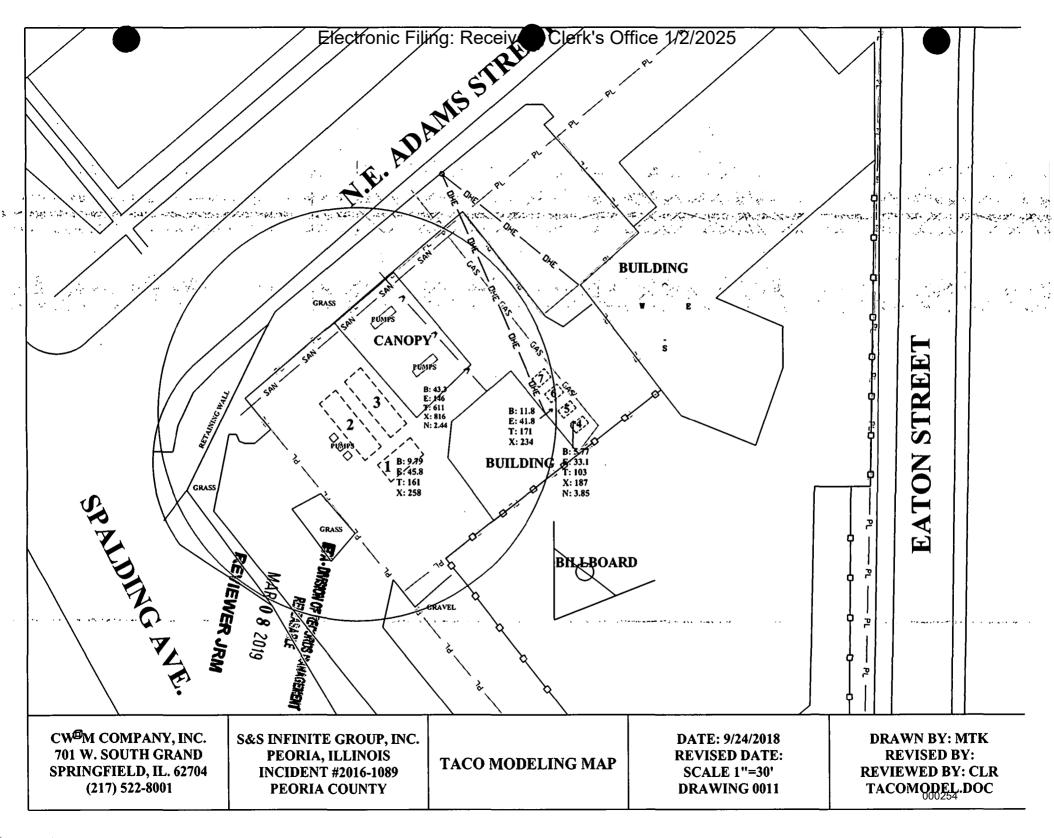












APPENDIX C OSFM ELIGIBILITY DETERMINATION

CORRECTIVE ACTION PLAN AMENDMENT S&S Infinite Group Peoria, Illinois



Office of the Illinois State Fire Marshal

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W.

2/15/2017

S and S Infinite Group Incorporated 400 North East Adams Street Peoria, IL 616034202

In Re:

Facility No. 3010480

IEMA Incident No. 20161089

Downtown 66

400 North East Adams Street Peoria, Peoria, IL 616034202

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on February 15, 2017 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$5,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 3 10000 gallon Gasoline

Tank 4 350 gallon Gasoline

Tank 5 350 gallon Gasoline

Tank 6 560 gallon Diesel Fuel

Tank 7 560 gallon Used Oil

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

- 1. Neither the owner nor the operator is the United States Government,
- 2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
- 3. The costs were incurred as a result of a confirmed release of any of the following substances:

"Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

Aviation fuel

Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

- 4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
- 5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
- The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.

 $A_{ij} \stackrel{\circ}{e} A_{ij} \stackrel{\circ}{\sim} A_{ij}$

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7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and the set deductible. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of issuance of the final decision, (35 Illinois Administrative Code 105.504(b)).

For information regarding the filing of an appeal, please contact:

Clerk Illinois Pollution Control Board State of Illinois Center 100 West Randolph, Suite 11-500 Chicago, Illinois 60601 (312) 814-3620

The following tanks are also listed for this site:

Tank 1 6000 gallon Diesel Fuel Tank 2 10000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

Deanne Lock

Division of Petroleum and Chemical Safety

APPENDIX D

CORRECTIVE ACTION PLAN BUDGET AND CERTIFICATION

CORRECTIVE ACTION PLAN AMEN DMENT
S&S Infinite Group
Peoria, Illinois

Owner/Operator and Licensed Professional Engineer/Geologist Budget **Certification Form**

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2016–1089 . I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 III. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 III. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

Costs associated with ineligible tanks.

Costs associated with site restoration (e.g., pump islands, canopies).

Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).

Costs incurred prior to IEMA notification.

Costs associated with planned tank pulls.

Legal fees or costs.

Costs incurred prior to July 28, 1989.

Owner/Operator: S & S Infinite Group, Inc.

Costs associated with installation of new USTs or the repair of existing USTs.

Authorized Representative: Syed Muneeb	Title: Agent	
Signature 2	Date: 11/3/	NOV 1 3 2018
Subscribed and sworn-to before me the	Jours 2	@BEPA/BOL
(Notary Public)	CAROL L. ROWE Officiál Seal Notary Public - State of Illinois My Commission Expires Mar 18, 2021	
In addition, I certify under penalty of law that all activitic conducted under my supervision or were conducted usor Licensed Professional Geologist and reviewed by metapared under my supervision; that, to the best of my or report has been completed in accordance with the Front 732 or 734, and generally accepted standards and practical professional complete. I am aware there are significated to the Illinois EPA, including but not limited to fines, im Environmental Protection Act [415 ILCS 5/44 and 57.1]	nder the supervision of another Licensed ne; that this plan, budget, or report and ald knowledge and belief, the work describe Environmental Protection Act [415 ILCS seactices of my profession; and that the informant penalties for submitting false statement penalties for both as provided in Section	Professional Engineer Il attachments were ed in the plan, budget, 5], 35 III. Adm. Code ormation presented is nts or representations
L.P.E./L.P.G. Vince E. Smith L.P.E./L.P.G. Signature:	L.P.E./L.P.G. Seal:	
	ay of Movember 2018	
(Notary Public) No My Cor My Cor The Illinois EPA is authorized to require this information	CAROL L BOWE Official Seal tary Public - State of Illinois mmission Expires Mar 18, 2021	
The Illinois EDA is authorized to require this informatic	on under 415 II CS 5/1 This officers of this	information is

required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

RECEIVED



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1430650114	County:	Peoria	. :		ے۔ ان
 ;	Site Name:		inite Groui	o. Inc.	•
Site Address: 400 NE Adams Street			• • •		<u> </u>
					••
IEMA Incident No.: 2016-1089			•		·
IEMA Notification Date: 11/21/2016			_		
Date this form was prepared: Mar 9, 2018					; ;
,			· · · ·		
This form is being submitted as a (check one, i	f applicable	·):	•		2
☐ Budget Proposal			• • • •	11 'S	₹
□ Budget Amendment (Budget amendmen)	ts must inclu	ide only th	ie costs ov	er the pro	evious budget)
Dudget / fine name in (Dudget amenamen	to made more	ido omy a	10 00010 01	i il	*.
☐ Billing Package				1	RECEIVE
Please provide the name(s) and date(s)	of report(s)	document	ing the co	sts reque	sted:
Name(s):			· · ·	. :	NOV 1 3 2018
Date(s):				<u>Z</u>	IEDA/DO!
•	tivition indi	natad hali		. 4	- IEPA/BOL
This package is being submitted for the site ac	uviues mur	cated bei	ow.	ج الله الله الله الله الله الله الله الل	•
35 III. Adm. Code 734:				· 🦝 ·	:
☐ Early Action					
Free Product Removal after Early Action			•	. 3	
Site Investigation Sta	ige 1: 🗌	Stage	e 2: 🔲	Şta	ge 3: 🔲
☐ Corrective Action Act	ual Costs				
35 III. Adm. Code 732:	•			:. p	.∵ .
Early Action			• :	3	:
Free Product Removal after Early Action			**	.; .;	
☐ Site Classification			40		
Low Priority Corrective Action					
High Priority Corrective Action				: it	••
35 III. Adm. Code 731:					ϵ^* .
Site Investigation			· · ;.	4.	:
Corrective Action				**************************************	γ.

IL 532 -2825 LPC 630 Rev. 1/ 2007

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of:S&S	Infinite Gr	oup			
Send in care of: CWM Compa	ny, Inc.			<u> </u>	
Address: P.O. Box 571	··	···			
City: Carlinville		State: IL		Zip: <u>626</u>	326
The payee is the: Own	er 🔽 Ope	rator 🗌	(Check on	e or both.)	
				W-9 must be Click here to	submitted. print off a W-9 Form.
Signature of the owner or operat	tor of the UST(s)	(required)			print on a vv-o i onii.
Number of petroleum USTs in II parent or joint stock company o or joint stock company of the over	f the owner or o	perator; and a			
Fewer than 101:	⊠ 101 or	more:			
Number of USTs at the site:	7 (Nu	mber of UST	s includes l	JSTs presently at t	he site and USTs that
have been removed.)					
Number of incidents reported to					
Incident Numbers assigned to t	the site due to re	eleases from l	JSTs: 2	0140963	20161089
Please list all tanks that have e	ver been located	d at the site a	nd tanks th	at are presently loc	ated at the site.
Product Stored in UST	Size (gallons)	Did UST		Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Diesel	6,000	Yes 🗓	No 🗌	20140963	Overfill
Gasoline	10,000	Yes 💢	No 🗌	20140963	Overfill
Gasoline	10,000	Yes 🔀	No 🗌	20161089	Overfill
Gasoline	. 350	Yes X	No 🗌	20161089	Tank Leak
Gasoline	350	· Yes 🗓	No 🗌	20161089	Tank Leak
Used Oil	560	Yes 🗓	No 🗌 .	20161089	Tank Leak
Used Oil	560	Yes 🗓	No 🗌	20161089	Tank Leak
		Yes 🗌	No 🗌		
		Yes 🗌	No 🗌		

Add More Rows

Undo Last Add

Budget Summary

;				· 19	••
734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
					Proposed
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 1,547.20
Analytical Costs Form	\$	\$	\$		\$ 2,918.98
Remediation and Disposal Costs Form	\$	\$	\$	\$ 1	\$ 71,580.88
UST Removal and Abandonment Costs	\$ 175	•	\$ 100 miles	\$ 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel & Costs Form	**************************************	\$ 1.00		\$	\$ 29,749.77
Consultant's Materials Costs Form	\$	\$	\$	\$ 150 M	\$ 806.50
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$ ·	\$	\$	· · · · · · · · · · · · · · · · · · ·	\$ 106,603.33

The state of the s

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
1	PUSH	10.00	10.00	Waste Characterization Parameters
				4
				: £:
				+ 2
				•
				÷

Subpart H
minimum payment
amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		29.65	1 3
Total Feet via PUSH:	10.00	23.21	232.10
Total Feet for Injection via PUSH:		19.34	
	<u> </u>	Total Drilling Costs:	1,547.20

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
<u>-</u>			<u> </u>	: . : .
•				☆ .
			•	
			• • •	
	· · · · · · · · · · · · · · · · · · ·		£	1
	· · · · · · · · · · · · · · · · · · ·		21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:			.1
Total Feet via PUSH:		****	. 3 7
Total Feet of 4" or 6" Recovery:		. ,	1 · ·
Total Feet of 8" or Greater Recovery:			
		Total Well Costs:	

Total Drilling and Monitoring Well Costs:	•	÷ \$1,547.20	1

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis				•	
BETX Soil with MTBE EPA 8260	9	Х	109.59	=	\$986.31
BETX Water with MTBE EPA 8260		Х		=	
COD (Chemical Oxygen Demand)		Х	7,	=	
Corrosivity		Х	:	=	
Flash Point or Ignitability Analysis EPA 1010	1	X	42.54	=	\$42.54
Fraction Organic Carbon Content (foc) ASTM-D 2974-00		X	;	. =	
Fat, Oil, & Grease (FOG)		X	. **	=	
LUST Pollutants Soil - analysis must include volatile, base/ neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734.Appendix B		х	2 1 (S)	· =	
Dissolved Oxygen (DO)		X	· .	=	
Paint Filter (Free Liquids)	1	X	18.05	: =	\$18.05
PCB / Pesticides (combination)		Х	(-2)	=	
PCBs		X	* .0	=	
Pesticides		X	1.6	=	
pH :	1	Χ	18.05	, =	\$18.05
Phenol		X		" =	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270	8	Х	195.98	· =	\$1,567.84
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		['] =	
Reactivity		Х	` ***	• =	
SVOC - Soil (Semi-Volatile Organic Compounds)		X	1::4	=	
SVOC - Water (Semi-Volatile Organic Compounds)		Χ̈́		=	
TKN (Total Kjeldahl) "nitrogen"		Χ	1 17	,=	
TPH (Total Petroleum Hydrocarbons)		X		. =	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X	*	;:=	·
VOC (Volatile Organic Compounds) - Water		X		. =	
		X	· ;; +=	. =	
		يX	. 5	=	
		Χ	<u> </u>	= [
		Х	_ : ::	· =	
		X		: =	
Geo-Technical Analysis		٠.			
Soil Bulk Density (pb) ASTM D2937-94		X	! 🤿	. =	
Ex-situ Hydraulic Conductivity / Permeability		Х	gent 	=	
Moisture Content (w) ASTM D2216-92 / D4643-93		Χ	· 29 \$	_ =	
Porosity		Χ	744 2	=	
Rock Hydraulic Conductivity Ex-situ		X,	. 4	=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X.	2.4	. =	
Soil Classification ASTM D2488-90 / D2487-90		Х		=	
Soil Particle Density (p _s) ASTM D854-92		X		= .	
		Χ.	1.3	=	
:		Χ _		, =	
		Х		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		Ţ.		· = T	
Soil preparation fee for Metals Total Soil (one fee per soil sample)	1	X	20.62	-	\$20.62
Water preparation fee for Metals Water (one fee per water sample)		X	- · · · · · · · · · · · · · · · · · · ·		
(the lee per water sample)		1.00		, <u>.</u>	
Arsenic TCLP Soil		X		. =	
Arsenic Total Soil		X		=	
Arsenic Water :	 .	X	ç	=	
Barium TCLP Soil		X		=	-
Barium Total Soil		x	<u>;</u>	<u> </u>	
Barium Water		X		=	
Cadmium TCLP Soil		X		.=	
Cadmium Total Soil		X		=-	
Cadmium Water		X	- 5	= +	
Chromium TCLP Soil		x		=	
Chromium Total Soil		x		=	
Chromium Water		x		=	
Cyanide TCLP Soil		х	9	=	
Cyanide Total Soil		x	3.3	=	
Cyanide Water		X	3	<u>.</u> =	
Iron TCLP Soil		X		=	
Iron Total Soil		X	100	=	
Iron Water	· · · · · · · · · · · · · · · · · · ·	X		_	
Lead TCLP Soil	1	X	20.62	=	\$20.62
Lead Total Soil		X		= +	V
Lead Water		X	• 🔥	. =	
Mercury TCLP Soil		x		_=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X			
Selenium Total Soil	·	X			
Selenium Water		x		=	
Silver TCLP Soil		x	4,0	. =	
Silver Total Soil		Χ.	2 2		-
Silver Water		X		· =	
Metals TCLP Soil (a combination of all metals) RCRA		X	***	. =	
Metals Total Soil (a combination of all metals) RCRA		Х		. =	
Metals Water (a combination of all metals) RCRA		X		· =	
;	······································	X		;; <u>=</u>	
		X		/ =	
· · · · · · · · · · · · · · · · · · ·		X	21 22 24		
:		Х		=	
Other				<u> </u>	
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	9	X	12.89	=	\$116.01
Sample Shipping per sampling event ¹	2	X	64.47	=	\$128.94

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 2,918.98

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
721.00	73.49	\$52,986.29

Backfilling the Excavation:

	Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
ſ	721.00	25.79	\$18,594.59

Overburden Removal and Return:

erburden Removal and Retu	rn:	· (4)
Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
i		1. 2 et 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

B. Alternative Technology

Alternative Technology			
Selected:		• • • • • • • • • • • • • • • • • • • •	
		`	
Number of Cubic Yards of S	oil to Be Remediated		¥
•		· .	4
		· · · · · ·	1 2 3
Total Non-Consulting Person	nnel Costs Summary Sheet (\$)		
Total Remediation Materials	Costs Summary Sheet (\$)	2	and the same of
			3
Total Cast of the System			ist of
Total Cost of the System			

Electronic Filing: Received, Clerk's Office 1/2/2025 nd Disposal Costs Form

Remediation and Disposal Costs Form

C.	Groundwater	Remediation	and/or Free f	Product Remo	val System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	2 de 1
Total Remediation Materials Costs Summary Sheet (\$)	: : ;;
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

☐ Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)
		Ţ.

E. Drum Disposal

☐ Subpart H minimum payment amount applies.

•		
Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
;		: 41 .5
:		
		7
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
		2 2
		à
Total Drum Dispo	sal Costs	91. 'V
		<u></u>

 Total Remediation and Disposal Costs:	\$71,580.88

Consulting Personnel Costs Form

<u> </u>		· 		. "FE 79. F	··
Employee Nan	ne	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task	Ĺ	**************************************	
1			•	: 🔅	;
		Senior Project Manager	40.00	126.40	\$5,056.00
CCAP	Amended Corre	ective Action Design / Report Devel	opment / IEPA Co	orrespondence	
				**	
		Senior Prof. Engineer	2.00	164.33	\$328.66
CCAP	Report Review	and Certification	;	-2	
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		Senior Draftperson/CAD	6.00	75:83	\$454.98
CCAP ;				2.7	<u> </u>
	Drafting and Ed	iting Maps for Report			,
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:		Senior Admin. Assistant	3.00	56.88-	\$170.64
CCAP	Poport Compile	tion, Assembly, and Distribution			
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		Senior Project Manager	10.00	126,40	\$1,264.00
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Employee Na	me		Personnel Title	Hours:	Rate* (\$)	Total Cost
Remediation Category			Tas	sk	3	
	:.		Senior Project Manager	14.00	126,40	\$1,769.60
CCAP-Budget		Budget Bronesst	ion / Data Evaluation			
		Budget Preparat	IOTI / Data Evaluation			
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		i.		· :		:
<i>,</i>				•		
<u> </u>			Senior Prof. Engineer	2.00	164.33	\$328.66
CCAP-Budget :		Budget Review 8	& Certification		ġ.	
			<u></u>	· 		
	-	٠, .	Senior Draftperson/CAD	8.00	77.35	\$618.80
ELUC		Drafting Maps fo	r Groundwater Ordinance	· · · · · · · · · · · · · · · · · · ·		
			<u></u>			
	•••		Senior Admin. Assistant	5.00	58:02	\$290.10
ELUC		Groundwater Or	dinance Notification / Correspo	ndence		
			r			•
	.f	• • • • • • • • • • • • • • • • • • • •	Engineer III	24.00	128.93	\$3,094.32
ELUC		Groudwater Ordi	nance Development / Correspo	ondence with City AN	leeting	
;						
	•		Senior Project Manager	10.00	128.93	\$1,289.30
ELUC		Groundwater Ore	dinance Negotiation Developm	ent / Correspondence	e / Notifications	
·		-		Task 2.00 126.40 \$1,769.60 2.00 164.33 \$328.66 DD 8.00 77.35 \$618.80 ce 14.00 58:02 \$290.10 correspondence 24.00 128.93 \$3,094.32 correspondence with City /- Meeting		
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	Senior Project Manager	8.00		,
304 5:11	<u></u>	8.00	128.93	\$1,031.44
CCA-Field	Scheduling Waste Characterization Drilling/Exca	vation Preparation		ition/Corr.
		-	ng ng	·
; , 	Engineer III	6.00	128.93	\$773.58
CCA-Field	Drilling Waste Characterization		100 mg	· · · · · · · · · · · · · · · · · · ·
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	Senior Admin. Assistant	2.00	58.02	\$116.04
CCA-Field		<u> </u>		. <u></u>
	JULIE/Client Notification for Waste Characteriza	tion Drilling/Excava	- ; ;} :	` ` .
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	Senior Project Manager	8.00	1,28:,03	- \$1,024.24
CCA-Field .	5'. Id Soomood die			***
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Ĭ	Engineer III	<u> </u>		
<u>.</u>	- Eligilieei III	36.00	128.93	\$4,641.48
CCA-Field	Excavation Disposal and Backfill Oversight/Sam	pling/Field Reports	100 kg	•
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•	Senior Draftperson/CAD	5.00	.77.35	\$386.75
CCA-Field	Destination (Description (Descr			
	Drafting/Documentation/Excavation/Sampling/Re	Suits	: :	
	Senior Project Manager		128,93	
	To the state of th	6.00		\$773.58
CCA-Field .	Analytical Results / Tablulation		P. T.	•
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	Engineer III	8.00	128,93	\$1,031.44
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Employee Nam	e	Personnel Title	Hours.	Rate* (\$)	Total Cost
Remediation Category		Task			
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		Senior Prof. Engineer	6.00	164.33	\$985.98
CA-Pay	Reimbursement	Review and Certification		* 1. y	
		Senior Acct. Technician	30.00	69,51	\$2,085.30
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		Senior Admin. Assistant	8.00	56.88	\$455.04
CA-Pay	Reimbursement	Compilation, Assembly, and Distr	ribution	- 1	
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:		Geologist III	16.00	111.24	\$1,779.84
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efer to the applicable Maximu	m Payment Amou	nts document.			
•		Total of Consulti	na Personnel Co		\$29,749.77
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Consultant's Materials Costs Form

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ELUC	Groundwater ordinance, g	roundwater ordinar		**************************************	·
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Mileage		600.00		/mile	\$324.00
CCA-Field	Four Round Trips from Sp	ringfield Office to S	ite (1 Drilling, 3 E	xcavation)	
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Materials, Equipment,	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
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Sampling Supplies		4.00	25.00	/day	\$100.00
CCA-Field	Disposable Latex Gloves, B	ags, Sampling Sur	plies		
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APPENDIX E BORE LOGS

CORRECTIVE ACTION PLAN AMENDMENT S&S Infinite Group Peoria, Illinois

	Illinois Environmental Protection A	gency					I COMPANY, INC.	
						DRILLI	NG BOREHOLE LOG Page 1 of 1	
IN	CIDENT #: 2016-1089		BOREHOI	LE NUM	IBER:	WC-1	:	
ITE NA	ME: S & S Infinite Group		BORING I			15' N of the 1	NW corner of building	
ITE AD	DDRESS: 400 North East Adams Street				_ ·	2.2		
A TE (T)	Peoria, IL 61603 . IME STARTED: 11/21/16 3:00 PM	· —	RIG TYPE DRILLING/			ounted drill rig		
	IME FINISHED: 11/21/16 3:00 PM		BACKFIL		Grout / C			
ЕРТН		USCS	Sample	PID			REMARKS: (Odor, Color,	
FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)	
°_	Concrete					<u> </u>	#	
	Top soil	ОН		0				
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	Stratification lines are approximate, in-situ transition Sampled at location of highest PID reading				;			
	Manway / Surface Elevation:							
	Groundwater Depth While Drilling:	N/A	Auger Dep	oth:	10'	Driller:	AEDC AEDC	
∇	Groundwater Depth After Drilling:		Rotary De	nth:	•	Geologist:	MDR	

	Illinois Environmental Protection Agency						COMPANY, INC.
	; ·		•			•	NG BOREHOLE LOG
	<u> </u>						Page 1 of 1
	CIDENT #: 2016-1089 :		BOREHOI			WC-2	
	ME: S & S Infinite Group		BORING I	OCATI	ON:	20' S & 5' E	of the NE corner of building
IIE AD	DRESS: 400 North East Adams Street Peoria, IL 61603		RIG TYPE	•	Truck me	ounted drill rig	, A 40 .
ATE/TI	ME STARTED: 11/21/16 3:10 PM	 -	DRILLING/				s. Si
ATE/TI	ME FINISHED: 11/21/16 3:20 PM		BACKFIL		Grout / C		1 /
DEPTH	SOIL AND ROCK	USCS	Sample	PID	-	1	REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Type	NUMBER	Moisture, Penetrometer, etc.)
_	Concrete	ļ				,	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
_	Top soil	ОН		0			
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			90%	0	Grab	WC-2	CNO.
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8—	•		95%	1178	Grab	√WC-2	BETX, MTBE, PNAs
						7.5'	WC Parameters
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	Stratification lines are approximate, in-situ transition between						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OIES:	Sampled at location of highest PID reading above	water tab	ne				Description of the second of t
					4		
ı	Manway / Surface Elevation:				:		
	Groundwater Depth While Drilling:	N/A	Auger Dep	th:	10'	Driller:	AEDC
	Groundwater Depth After Drilling:			Rotary Depth:			

	Illinois Environmental Protection Agency					CW [□] M COMPANY, INC.			
	,					DRILLING BOREHOLE LOG			
						•	Page 1 of 1		
	CIDENT #: 2016-1089		BOREHOI			WC-3			
	ME: S & S Infinite Group		BORING I	LOCATI	ON:	15' N & 12' V	W of the NW corner of building		
SITE AD	DRESS: 400 North East Adams Street					:	<u> </u>		
DATECT	Peoria, IL 61603		RIG TYPE DRILLING			unted drill rig			
	IME STARTED: 12/16/16 8:55 PM IME FINISHED: 12/16/16 9:10 PM		BACKFIL		Grout / C		we the second se		
DEPTH		USCS	Sample	PID	Sample		REMARKS: (Odor, Color,		
(FEET)	DESCRIPTION	CLASS		(ppm)	Туре		Moisture, Penetrometer, etc.)		
0	Concrete			****			19		
	Top soil	ОН		0					
1 -	- op 33	0		ľ			* <u>*</u>		
'—	Backfill	ł				•			
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_	and the first term of the second		90%	0	Grab	WC-3			
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8			95%	1178	Grab	WC-3	BETX, MTBE, WC Parameters		
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	Stratification lines are approximate, in-situ transition between a Composite of 5' section with highest degree of cor				and DID	:	77		
10,123.	Composite of 5 section with ingliest degree of cor	IIIIIIIII	WC-1	, ,, ,,	, and FIL		3		
i	EOB 20' Dry Sand				:	<u></u> ·			
	Manway / Surface Elevation:					·	1 % W		
	Groundwater Depth While Drilling:	N/A	Auger Dep	oth:	10' ;	Driller: .	AEDC		
\Box	Groundwater Depth After Drilling:		Rotary De	pth:		Geologist:	MDR		

DATE/TIME STA DATE/TIME FINI DEPTH (FEET) 0	ois Environmental Protection Agency	y	-			CW [□] M COMPANY, INC.			
SITE NAME: S & SITE ADDRESS: DATE/TIME STADATE/TIME FINITED F						DRILLI	NG BOREHOLE LOG		
SITE NAME: S & SITE ADDRESS: DATE/TIME STADATE/TIME FINITED TO Concrete Gravel/S 1 Brown/E 2 Brown/E 3 Sand: Mo 6 Stratification Stratifica	NT #. 2016 1000		BOREHOI	TO BILLIA	(DED.	CD 24	Page 1 of 2		
ATE/TIME STA DATE/TIME STA DATE/TIME STA DATE/TIME FINI DEPTH (FEET) 0			BOREHOI			SB-24 15' E and 25	N of the NW corner of the building		
ATE/TIME FINIDEPTH (FEET) O Concrete Gravel/S Brown/E 3 4 5 Sand: M. 6 11 12 13 14 Brown fil Stratification OTES: Composite	S: 400 North East Adams Street								
ATE/TIME FINIDEPTH (FEET) O Concrete Gravel/S Brown/E 3 4 5 Sand: M. 6 11 12 13 14 Brown fil Stratification OTES: Composite	Peoria, IL 61603		RIG TYPE						
DEPTH (FEET) 0 Concrete Gravel/S 1 Brown/E 3 Sand: M 6 Sand: M 11 Stratification of the strategy of the s	TARTED: 7/26/17 8:00 AM		DRILLING/SAMPLE METHOD:				<u>-</u>		
Gravel/S Concrete Gravel/S Brown/E Sand: M Sand: M Sand: M Stratification Stratification Stratification Stratification Stratification Stratification Stratification	SOIL AND ROCK	USCS	BACKFILI Sample	L: PID	Grout / C		REMARKS: (Odor, Color,		
Gravel/S Brown/E Brown/E Sand: Market Sand: Market Brown file Stratification Stratification Stratification Stratification Stratification Stratification	DESCRIPTION	CLASS		(ppm)	-		Moisture, Penetrometer, etc.)		
Brown/E Brown/E Sand: M Sand: M Brown file Stratification OTES: Composi	rete					· ·			
3 Sand: M. 6 Sand: M. 6 Sand: M. 10 Stratification OTES: Composi	I/Sand Backfill	ОН					No odor or discoloration		
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Stratification		」		0			· 以表示。		
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OTES: Composi							新·黄色 (1)		
The soil	ation lines are approximate, in-situ transition between osite of 5' section were sampled at the high bil boring log continues on page 2				ter of the	sample			
Manuay	vay / Surface Elevation:				; ;	· · :	17 Mg 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	ndwater Depth While Drilling:	none	Auger Dep	oth ·	25'	Driller:	AEDC		
$\overline{\Box}$	ndwater Depth After Drilling:		Rotary De			Geologist:	GTR/MTK		

	Illinois Environmental Protection Agency						COMPANY, INC.		
	•					DRILLI	NG BOREHOLE LOG		
	<u> </u>					<u>;</u>	Page 2 of 2		
	NCIDENT #: 2016-1089		BOREHOLE NUMBER:			SB-24			
	AME: S & S Infinite Group DDRESS: 400 North East Adams Street		BORING LOCATION:			15' E and 25	Nof the NW corner of the building		
IIE AL	Peoria, IL 61603	ns Sueet			Truck me	ounted drill rig			
ATE/T	IME STARTED: 7/26/17 8:00 AM		RIG TYPE DRILLING						
	IME FINISHED: 7/26/17 8:30 AM		BACKFILL: Grout / C						
EPTH FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID	_	SAMPLE	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)		
15	DESCRIPTION :	CLASS	Recovery	(ppm)	Туре	NUNBER	iii		
_	Sand: Med-Large Grained	SP							
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²³ —	•		90%		Grab	SB-24F	BETX, MTBE, PNA		
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	Stratification lines are approximate, in-situ transition between composite of 5' section were sampled at the higher				ter of the	sample			
	EOB 25' Dry Sand								
	Manway / Surface Elevation:		<u> </u>			·	<u> </u>		
<u> </u>	Groundwater Depth While Drilling:	None	e Auger Depth: 25'			Driller:	AEDC		
\vee	Groundwater Depth After Drilling:		Rotary De	pth:		Geologist:	GTR/MTK		

	Illinois Environmental Protection Age	ency		-		CW [□] M COMPANY, INC. DRILLING BOREHOLE LOG			
	•			•		DKILLII	Page 1 of 2		
IN	CIDENT #: 2016-1089		BOREHOI	LE NUM	BER:	SB-25	i di di di di di di di di di di di di di		
	ME: S & S Infinite Group		BORING I				N of the NW corner of the Building		
TE ADI	DRESS: 400 North East Adams Street					*:**·	3		
	Peoria, IL 61603		RIG TYPE			ounted drill rig			
	ME STARTED: 7/26/17 8:30 AM ME FINISHED: 7/26/17 8:50 AM		DRILLING/ BACKFIL		Grout / C				
EPTH	SOIL AND ROCK	USCS	Sample	PID			REMARKS: (Odor, Color,		
FEET)	DESCRIPTION	CLASS			_		Moisture, Penetrometer, etc.)		
0	Concrete					· ·:			
\Box	Gravel/Sand Backfill	ОН					No odor or discoloration		
1	:			0		, · ·			
	Brown/Black Silty Clay	CL				+7.,	1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to		
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			80%	0	Grab				
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	Sand: Med-Large Grained	SP							
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TES: (Stratification lines are approximate, in-situ transition be Composite of 5' section were sampled at the The soil boring log continues on page 2				er of the	sample			
7	Manway / Surface Elevation:				:		25 		
-				_			· PDC		
-	Groundwater Depth While Drilling:	None	Auger Dep	oth:	20'	Driller:	AEDC		

Illin	nois Environmental Protection Agen	icy				CW [□] M COMPANY, INC.		
	<u>;</u> ?					DRILLI	NG BOREHOLE LOG	
	<u>,</u>		BOREHOLE NUMBER:			r - 1	Page 2 of 2	
	ENT #: 2016-1089 S & S Infinite Group :		BOREHOI BORING I			SB-25	N of the NW corner of the Building	
	SS: 400 North East Adams Street		IBOKING I	JOCATI	ION:	. E and 3 i	of the Nw corner of the Building	
I D MODICE	Peoria, IL 61603		RIG TYPE	:	Truck mo	unted drill rig		
TE/TIME	STARTED: 7/26/17 8:30 AM		DRILLING/				* Wat 44	
	FINISHED: 7/26/17 8:50 AM		BACKFIL		Grout / C			
EPTH	SOIL AND ROCK	USCS	Sample	PID	Sample		REMARKS: (Odor, Color,	
EET)	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)	
5							<u>:</u>	
Sand	d: Med-Large Grained	SP					3	
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	;		90%	0	Grab	SB-25B	BETX, MTBE, PNA	
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Samuel Commercial Comm						<i>.</i>	1 · · · · · · · · · · · · · · · · · · ·	
	ication lines are approximate, in-situ transition betw posite of 5' section were sampled at the hi				ter of the	sample		
	20' Dry Sand way / Surface Elevation:							
	Groundwater Depth While Drilling: None				20'	Driller:	AEDC	
	Auger Depth: 20' Rotary Depth:				· · · · · · · · · · · · · · · · · · ·			

	Illinois Environmental Protection Agenc	y				`	COMPANY, INC. NG BOREHOLE LOG
						:	Page 1 of 2
	CIDENT #: 2016-1089		BOREHOI			SB-26	<u> </u>
	ME: S & S Infinite Group		BORING LOCATION:			11' N and 21	'W of the NE corner of the Building
SITE ADI	DRESS: 400 North East Adams Street		RIG TYPE		Travels made	ounted drill rig	<u> </u>
ATE/TE	Peoria, IL 61603 ME STARTED: 8/2/2018 12:00 PM		DRILLING/				<u> </u>
	ME FINISHED: 8/2/2018 12:25 PM	·	BACKFIL		Grout / C		
DEPTH	SOIL AND ROCK	USCS	Sample	PID			REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)
00	Concrete	_					1
	Top Soil :	ОН				.:	No odor or discoloration
1	\$			0	i	. 17	
	Dark brown silty clay	CL					
2	· · · · · · · · · · · · · · · · · · ·						1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to
-			90%	30	Grab	SB-26A	BETX, MTBE, PNA
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	Brown sand	sw					[金莲] A. C. C.
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			95%	0	Grab	SB-26B	BETX, MTBE, PNA
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_	Light brown sand	sw	90%	0	Grab	SB-26C	BETX, MTBE, PNA
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	Stratification lines are approximate, in-situ transition betwee Sampled at location of highest PID per 5' interv						5
	: Manway / Surface Elevation:				•		
	·	_				• •	
	Groundwater Depth While Drilling:	~19'	Auger Dep	oth:	20'	Driller:	3 AEDC

	Illinois Environmental Protection Agency	-						
						DRILLI	NG BOREHOLE LOG	
							Page 2 of 2	
	CIDENT #: 2016-1089		BOREHOI			SB-26	1:15 9	
	ME: S & S Infinite Group		BORING I	CATI	ION:	11' N and 21' W of the NE corner of the Building		
SITE AD	DRESS: 400 North East Adams Street		RIG TYPE	•	Truck	unted drill rig		
DATE/TI	Peoria, IL 61603 IME STARTED: 8/2/2018 12:00 PM		DRILLING/				the grant of the second	
	IME FINISHED: 8/2/2018 12:25 PM		BACKFIL		Grout / C			
DEPTH		USCS	Sample	PID	Sample		REMARKS: (Odor, Color,	
(FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)	
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	:	SP					<u></u>	
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	•		90%	0	Grab	. SB-26D	BETX, MTBE, PNA	
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	Stratification lines are approximate, in-situ transition between	soil types m	ay be gradual		— — ;	•	2	
NOTES:	Sampled at location of highest PID per 5' interval						T.	
	Manway / Surface Elevation:				:	·		
	Groundwater Depth While Drilling:	~19'	Auger De	oth:	20'	Driller:	AEDC	
	Groundwater Depth After Drilling:		Rotary De	***		Geologist:	MJS/GTR	

	Illinois Environmenta	l Protection Agency	· ·	÷				COMPANY, INC.
		•					DRILLI	NG BOREHOLE LOG
IN	CIDENT #: 2016-1089	<u>:</u>		BOREHOI	E NILIM	(DED.	SB-27	Page 1 of 2
	ME: S & S Infinite Group			BORING I				W of the NE corner of the Building
	DRESS: 400 North East A	dams Street						
	Peoria, IL 61603			RIG TYPE			ounted drill rig	
	ME STARTED: 8/2/2018 ME FINISHED: 8/2/2018			DRILLING/ BACKFIL		Grout / C		<u> </u>
EPTH		D ROCK	USCS	Sample	PID	Sample		REMARKS: (Odor, Color,
EET)	DESCR			Recovery	(ppm)	Type		Moisture, Penetrometer, etc.)
0(Concrete	:						. 3
	Top Soil		ОМ	_				No odor or discoloration
1 <u> </u>					0			throughout
	Dark brown silty clay	 ·	CL				,	
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		:		90%	0	Grab		
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	Light brown sand		sw	90%	0	Grab	SB-27C	BETX, MTBE, PNA
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	Stratification lines are approxim Sampled at location of hi					taken onl	y from 10-1:	5' and 15-20' per IEPA request
ľ	Manway / Surface Eleva	ation:					• • •	
	Groundwater Depth Wi	;	~18'	Auger De	oth:	20'	Driller:	3 AEDC
	Groundwater Depth Aft				Geologist:	. 1		

Illinois Environmental Protection Agency						CW [□] M COMPANY, INC.			
							DRILLING BOREHOLE LOG		
	<u> </u>		r:			<u>:</u>	Page 2 of 2		
INCIDENT #: 2016-1089 SITE NAME: S & S Infinite Group SITE ADDRESS: 400 North East Adams Street				BOREHOLE NUMBER: BORING LOCATION:		SB-27 I' N and 43' W of the NE corner of the Building			
			JOURNG I	BURING LUCATION:			1 N and 43 W of the NE corner of the Building		
	Peoria, IL 61603 :		RIG TYPE	:	Truck mo	ounted drill rig			
	IME STARTED: 8/2/2018 12:25 PM		DRILLING/		Е МЕТНО	D: Push			
	IME FINISHED: 8/2/2018 12:45 PM		BACKFIL		Grout / C		. 18		
DEPTH (FEET)	•	USCS CLASS	Sample Recovery	PID (ppm)			REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)		
15	Light brown sand	sw				• • •	2		
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-	e de la companya de l		95%	0	Grab	SB-27D	BETX, MTBE, PNA		
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	Stratification lines are approximate, in-situ transition betwee Sampled at location of highest PID per 5' inter		nay be gradual.		:		*		
O1E3:	Sampled at location of ingliest FID per 3' Inter	vai			;				
	Manway / Surface Elevation:					•	in the second se		
	Groundwater Depth While Drilling:	Auger Dep	oth:	20'	Driller:	AEDC			
$\overline{\Box}$	7						4		
<u> </u>	Groundwater Depth After Drilling:		Rotary Depth:			Geologist:	MJS/GTR		

	Illinois Environmental Protection Agency			CW [□] M COMPANY, INC.					
	;					DRILLI	NG BOREHOLE LOG		
							Page 1 of 2		
	CIDENT #: 2016-1089	-	BOREHOI			SB-28			
	ME: S & S Infinite Group		BORING I	OCATI	ON:	12' S and 62'	W of the NE corner of the Building		
SILEAD	DRESS: 400 North East Adams Street Peoria, IL 61603		RIG TYPE	•	Truck mo	unted drill rig			
DATE/TI	IME STARTED: 8/2/2018 12:45 PM		DRILLING/				· · · · · · · · · · · · · · · · · · ·		
	IME FINISHED: 8/2/2018 1:05 PM		BACKFIL	L:	Grout / C		a diji		
DEPTH	SOIL AND ROCK	USCS	Sample	PID		SAMPLE	REMARKS: (Odor, Color,		
(FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)		
0	Concrete						*1. 第5 日 - 1.		
1 4	Top Soil	ОМ					No odor or discoloration		
1				0	Grab		100 mg		
	Dark brown sandy clay	CL							
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	·	1	90%	0	Grab	SB-28A	BETX, MTBE, PNA		
3						3.25	[ន្ទីស្នេក		
4	•	1]	0	Grab	.*			
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	<u>:</u>		90%	0	Grab -	- SB-28B	BETX, MTBE, PNA		
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_	Light brown sand	sw	90%	0	Grab	SB-28C	BETX, MTBE, PNA		
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	Stratification lines are approximate, in-situ transition between Sampled at location of highest PID per 5' interval				•				
					:		. .		
	Manway / Surface Elevation:				<u>:</u>	<u> </u>	1		
	Groundwater Depth While Drilling:	Auger Dep	oth:	20'	Driller:	. AEDC			
\Box	Groundwater Depth After Drilling:		Rotary De	pth:		Geologist:	MJS/GTR		

	Illinois Environmental	Protection Agency					CW [□] M	COMPANY, INC. NG BOREHOLE LOG			
	•							Page 2 of 2			
IN	CIDENT #: 2016-1089	· -		BOREHOL	E NUM	BER:	SB-28	1			
SITE NA	ME: S & S Infinite Group			BORING I		ON:		W of the NE corner of the Building			
SITE AD	DRESS: 400 North East Ada	ms Street					nounted drill rig				
ATE (T)	Peoria, IL 61603 1ME STARTED: 8/2/2018 12	0.46 DM		RIG TYPE DRILLING/				<u> </u>			
	IME FINISHED: 8/2/2018 1:			BACKFIL	_	Grout / C					
DEPTH	SOIL AND		USCS	Sample	PID			REMARKS: (Odor, Color,			
(FEET)	DESCRIP	TION	CLASS	Recovery	(ppm)	Туре	NUMBER	Moisture, Penetrometer, etc.)			
15	Light brown sand		sw		0	•	, s - ;				
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			1					<u> </u>			
17					0			3			
				90%	-						
18				10,0			भवार इ.स.	Stong odor			
	Black sand		sw		433	Grab	SB-28D	BETX, MTBE, PNA			
19	Diack Salid		3 W		433	Giao	3D-20D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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	End of Boring 20'						·	20			
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			[į	<u>,</u>				
30								Æ			
	Stratification lines are approximate Sampled at location of high					:		- A Company of the Co			
	Manway / Surface Elevation	on:	•			ş	· ;	# # % %			
	Groundwater Depth While		~18'	Auger Depth: 20'			Driller:	^ AEDC			
$\overline{\Box}$						-		N 32 :			
\vee	Groundwater Depth After	Drilling:		Rotary De	pth:	_	Geologist:	MJS/GTR			

	Illinois Environmental Protection Agency	•					COMPANY, INC. NG BOREHOLE LOG
						, ,	Page 1 of 2
· IN	CIDENT #: 2016-1089		BOREHOI	LE NUM	BER:	SB-29	1 dgc 1 of 2
	ME: S & S Infinite Group		BORING I				W of the NE corner of the Building
SITE AD	DRESS: 400 North East Adams Street						
	Peoria, IL 61603		RIG TYPE			unted drill rig	
	ME STARTED: 8/2/2018 1:05 PM		DRILLING/				
DEPTH	ME FINISHED: 8/2/2018 1:25 PM SOIL AND ROCK	USCS	BACKFILI Sample	L: PID	Grout / C		REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	1	Recovery	(ppm)	_		Moisture, Penetrometer, etc.)
	Concrete	1		(66.00)	- 13 0		
\rightarrow	Top Soil	ОМ					No odor or discoloration
. –	;	Olvi		0	Cook	1. ip	I
1—	- · · · · · · · · · · · · · · · · · · ·			"	Grab		throughout
_	Dark brown silty clay	CL					
² —			ľ			. <i>,</i>	
			85%	0	Grab	SB-29A	BEȚX, MTBE, PNA
3						١.٠	】 · 藥 →
4 7				0	Grab	e species y	
· ·	Brown sand	d sw			0.00		
	brown sand	SW				1	
5							-
_						٠,	<u> </u>
6		1		0	Grab	,	
\Box							
	Light brown sand	7 sw					· · · · · · · · · · · · · · · · · · ·
	:		90%	0	Grab		, ,
8 -			/0/0	Ť	Giao	· · · ·	
°H	:						· 京韓
<u>,</u> –	•						
9_						·	Slight odor and discoloartion
	<u>:</u>			50	Grab	SB-29B	BETX, MTBE, PNA
10	•					. : •	†
		1		i			
11	·			0	Grab		
\Box	•			Ĭ	Oluo		
., 				-		•	
12	:						
4			95%	0	Grab	SB-29C	BETX, MTBE, PNA
13			·				· · ·
						÷,	<u> </u>
14				0	Grab		[5] 秦代 [集] 宋
)		J		;	格·基 图:
15	v					.8	
	Startification lines are approximate in site to site to be a site of the site	0011 \$1:222 :::	ou ho edu-1			, . ,	
	Stratification lines are approximate, in-situ transition between Sampled at location of highest PID per 5' interval				•	·: .	South that
· · · · L.S. ·	campion at roomion of ingliest FID per 3 interval	or conten	עווטיי		:		7.
	Manway / Surface Elevation:					· · ·	
	Groundwater Depth While Drilling:	~18'	Auger Dep	th:	20'	Driller:	AEDC
					MJS/GTR		

	Illinois Environmental Protection Agency					CW [□] M	COMPANY, INC.
						DRILLIN	NG BOREHOLE LOG
	:					; . ; , ,	Page 2 of 2
	CIDENT #: 2016-1089	·	BOREHOL			SB-29	
	ME: S & S Infinite Group		BORING I	OCATI	ON:	5' N and 80'	W of the NE corner of the Building
SITE AD	DRESS: 400 North East Adams Street		DIO 5775		T .		5
DATECT	Peoria, IL 61603 IME STARTED: 8/2/2018 1:05 PM		RIG TYPE DRILLING/			unted drill rig	() () () () () () () () () ()
	IME STARTED: 8/2/2018 1:05 PM		BACKFILI		Grout / C		
DEPTH	SOIL AND ROCK	USCS	Sample	PID	Sample		REMARKS: (Odor, Color,
(FEET)	DESCRIPTION	CLASS	Recovery	(ppm)	Type	NUMBER	Moisture, Penetrometer, etc.)
15	Light brown sand	sw					
				0	Grab		\$ B
16		1					
=	;	1	1				
17	i i	1					3 ×5,
``-	:		90%	0	Grab	SB-28D	BETX, MTBE, PNA
18	· ·		7070		Giao	36-200	
I '°−	;						W
1 ., -	•			•	0.4		Wet
19	•			0,	Grab		<u>*</u>
-	:					,	
20	<u> </u>	1					
	End of Boring 20'					·.·	
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		1					MARCH .
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23						: .*·	\$ 1
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30							(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
. —	Stratification lines are approximate, in-situ transition between	soil types n	nay be gradual.				
	Sampled at location of highest PID per 5' interval				Ì		to the second se
					<u> </u>	· ·	# **
	Manway / Surface Elevation:				•		
			A 5	. 43-		D.:	
	Groundwater Depth While Drilling:	~18'	Auger Dep		20'	Driller:	AEDC
\square	Groundwater Depth After Drilling:		Rotary De	pth:		Geologist:	MJS/GTR

APPENDIX F ANALYTICAL RESULTS

CORRECTIVE ACTION PLAN AMENDMENT S&S Infinite Group Peoria, Illinois



Release Confirmation/Waste Characterization

	Location	WC-1	WC-2	WC-3	RC-1
	Date	11/21/2016	11/21/2016	12/16/2016	1/3/2017
	Depth				
Parameter	Tier I CUO				
Benzene	0.03	43.3	11.8	9.79	5.77
Ethylbenzene	13.0	146.0	· 41.8	45.8	33.1
Toluene	12.0	611.	171.	161.	103.
Total Xylenes	5.6	816.	234.	258.	187.
MTBE	0.32	ND	ND	ND	ND
Acenaphthene	570	ND	ND		ND
Acenaphthylene	30	ND	ND		ND
Anthracene	12,000	ND	ND		ND
Benzo(a)anthracene	0.9	ND	ND		ND
Benzo(a)pyrene	0.09	ND	ND		ND
Benzo(b)flouranthene	0.9	ND	ND		ND
Benzo(g,h,i)perylene	160	ND	ND		ND
Benzo(k)flouranthene	9	ND	ND		ND
Chrysene	88	NĐ	ND		ND
Dibenzo(a,h)anthracene	0.09	ND	ND		ND
Flouranthene	3,100	0.061	ND		. ND
Fluorene	560	ND	ND		ND
Indeno(1,2,3-c,d)pyrene	> 0.9	ND	ND		ND.
Napthalene	1.8	2.44	0.343		3.85
Phenanthrene	280	0.09	ND		0.09
Pyrene	2,300	0.066	ND		ND

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Cle

BOLD & SHADING - Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective

ND -- Not Detected



S and S Infinite Group, Inc. Site Assessment Data

Early Action - Soil

Triple 对外认为

	Location	1	2,	3	4	5	6	7
	Date	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/6/2017	1/6/2017	1/6/2017
	Depth	3'	3'	Backfill	Backfill	3'	3'	7'
Parameter	Tier I CUO						,	
Benzene	0.03	ND	ND	1.37	ND	ND	ND	ND
Ethylbenzene	13.0	ND	ND	7.18	ND	ND	ND	ND
Toluene	12.0	ND	ND	29.6	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	39.	ND	ND	ND	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570							
Acenaphthylene	30							
Anthracene	12,000							
Benzo(a)anthracene	0.9							
Benzo(a)pyrene	0.09							
Benzo(b)flouranthene	0.9							
Benzo(g,h,i)perylene	160							
Benzo(k)flouranthene	9							
Chrysene	88							
Dibenzo(a,h)anthracene	0.09							
Flouranthene	3,100			,				
Fluorene	560						•	
Indeno(1,2,3-c,d)pyrene	0.9					, .		
Napthalene	1.8							
Phenanthrene	-280							
Pyrene	2,300							
Numbers not bold indicate	actual quantities, bi	it are below t	he TACO Ti	er 1 Most St	ringent Soil (Clean-up Ob	jective.	: • .*
BOLD & SHADING E	cceeds the TACO T	ier I Most St	ringent Soil	Clean-up Ob	jective.	<u>नक्यार क्रीस्ट्र</u> स	لأنصب فيرسي والمال	ۼڒ؞؞ڛٷڿ <mark>ۻڰ</mark> ڴڴڴڰڰڰڰ ؙ
ND Not Detected						· ·	Ì	



S and S Infinite Group, Inc. **Site Assessment Data**

Early Action - Soil

1/6/2017 7' JO ND ND ND ND ND ND ND	1/9/2017 11' ND ND ND ND ND ND ND ND ND ND ND ND ND	1/9/2017 11' ND ND ND ND ND ND ND ND ND ND ND ND ND	1/9/2017 11' ND ND ND ND ND O.121 0.165	1/9/2017 11' ND ND ND ND ND ND ND	1/9/2017 7' ND ND ND ND ND ND ND ND ND ND ND ND ND	1/9/2017 7' ND ND ND ND ND ND ND ND ND ND ND ND ND	1/9/2017 7' ND ND ND ND ND ND ND ND ND ND ND ND ND	1/9/2017 7' ND ND ND ND ND ND	1/9/2017 7' ND ND ND ND ND ND ND ND ND ND ND ND
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i		, ,,,,	0.063	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND_
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	0.131	ND	ND	ND	ND	ND	ND
	ND	ND.	0.237	ND	, ND	ND	ND ' a	ND	ND.
	.ND	ND	ND	ND	ND	ND	ND	ND	ND.
	ND	ND	80.9	0.146	ND	ND	ND	ND	ND
	ND	ND	0.657	ND	. ND	ND	ND	ND	ND
	ND	ND	0.167	, ND	ND	ND	ND	ND	ND
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ND -- Not Detected



S and S Infinite Group, Inc. Site Assessment Data

Early Action - Soil

		Location	18	19	20	21	22	23
		Date	1/9/2017	1/10/2017	1/10/2017	1/10/2017	1/10/2017	1/10/2017
		Depth	7'	7'	13'	13'	3'	3'
	Parameter	Tier I CUO			,			
	Benzene	0.03	ND	ND	0.0263	ND	ND	ND
	Ethylbenzene	13.0	ND	ND	ND	ND	ND	ND
	Toluene	12.0	ND	ND .	0.132	ND	ND	ND
	Total Xylenes	5.6	ND	ND	0.133	ND	.ND	ND
	MTBE	0.32	ND	ND	ND	ND	ND	ND
	Acenaphthene	570	ND				·	
	Acenaphthylene	30	ND					
	Anthracene	12,000	ND					
	Benzo(a)anthracene	0.9	ND	,				
	Вепхо(а)рутепе	0.09	ND					
	Benzo(b)flouranthene	0.9	ND					
	Benzo(g,h,i)perylene	160	ND				·	
	Benzo(k)flouranthene	9	ND					
	Chrysene	88	ND					
	Dibenzo(a,h)anthracene	0.09	ND					
ال المؤرد المناطق المعارض المناطقة المأتيس لا يروه المناوي	Flouranthene	3,100	ND			••		
	Fluorene	560	ND	. :			•	
errika ergin miljerika pilipin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kana Kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanal Kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanalisa ergin kanal	Indeno(1,2,3-c,d)pyrene	0.9	ND				•	
	Napthalene	1.8	ND					
	Phenanthrene	280	ND	,				•
	Pyrene	2,300	ND					
	Numbers not bold indicate	actual quantities, bu	ı					
करानुष्यक्रमः राज्येक विशेषक्षित्रे सम्बद्धान्य स्ट्राप्तिस्टर्कियान्यः विशेषक्षित्रे । 	BOLD & SHADING E	xceeds the TACO T	i It	Factor of several	Land and Software	يو. په مدينه و کارليد د په يو پوي. د	and the second section of	أمادي فيمارمه وبالمانيون
	ND Not Detected	1						1,,

Electronic Filing. Sing Assessment Data County Inc. Office 1/2/2025



Stage 1 - Soil

	Location	24A	· 24B	24C	: 24D	24E	24F	25A	25B
	Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
	Depth	2.5	5	7.5	12.5	17.5	22.5	12.5	17.5
Parameter	TEIR I CUO			-					
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13.0	ND	ND	ND	DN	ND	ND	ND	ND
Toluene	12.0	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	30	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12,000	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	0.125	ND	ND	-ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	0.153	ND	ND	ND	ND	ND	ND	ND_
Benzo(b)flouranthene	0.9	0.228	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	160	0.115	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	9	0.0771	ND	ND	.ND	ND	ND	ND	ND
Chrysene	88	0.199	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	D	ND	ND	ND	ND	ND
Flouranthene	3,100	0.307	ND	ND	ND	ND	ND	ND	0.0506
Fluorene	560	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.9	0.102	ND	ND	ND	ND	ND	ND	ND
Napthalene	1.8	**.ND	ND	ND	ND	ND	0.333	ND	ND .
Phenanthrene	280	0.162	i ND	··· ND	ND	ND	ND	ND***	ND ·
Pyrene	2,300	0.285	ND	ND	ND.	ND	ND	ND	0.043

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.

BOLD & SHADING -- Exceeds the TACO Tier I Most Stringent Soil Clean-up Objective.

ND -- Not Detected





	Location	24A	24B	24C	24D	24E	24F	25A	25B
	Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
	Depth	2.5	5	7.5	12.5	17.5	22.5	12.5	17.5
Parameter	TEIR I CUO		. ,						
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13.0	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	12.0	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	30	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12,000	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.9	0.125	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.09	0.153 °	ND	ND	ND	ND	ND	ND	ND
Benzo(b)flouranthene	0.9	0.228	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	160	0.115	ND	ND	ND	ND	ND	ND	ND
Benzo(k)flouranthene	9	0.0771	ND	ND	ND	ND	ND	ND	ND
Chrysene	88	0.199	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	3,100	0.307	ND	ND	ND	ND	ND	ND	0.0506
Fluorene	560	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.9	0.102	ND	ND	ND	ND	ND	ND	ND
Napthalene	1.8	ND	ND	ND	ND:	ND	0.333	ND	ND
Phenanthrene	280	0.162	An ND :	ND.	ND	ND	// ND	ND	ND
Ругепе	2,300	0.285	ND	ND	ND	ND	ND	ND	0.043

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.

BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.

ND -- Not Detected ...





CAP-Soil

	Location	SB-26A	SB-26B	SB-26C	SB-26D	SB-27C	SB-27D	SB-28A	SB-28B	SB-28C	SB-28D
	Date	8/2/2018	8/2/2018	8/2/2018	8/2/2018	8/2/2018	8/2/2018	8/2/2018	8/2/2018	8/2/2018	8/2/2018
	Depth	2.5'	7.5'	12.5'	17.5'	12.5'	17.5'	2.5'	7.5'	12.5'	18'
Parameter	TEIR I CUO	·* . ***									
Benzene	0.03	0.389	ND	ND	ND	ND	ND	ND	ND	0.0335	0.0195
Ethylbenzene	13.0	1.01	ND	ND	ND	ND	ND	ND	ND	ND	0.106
Toluene	12.0	4.44	0.0637	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5.6	6.43	ND	ND	ND	ND	ND	ND	ND	ND	0.114
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	12,000	ND	ND	ND	ND	ND	ND	ND	ND	ND _	ND
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND _	ND
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND .	ND	ND	ND	ND
Benzo(b)flouranthene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	160	ND	ND	ND	ND	ND	ND	ND	ND /	ND	ND
Benzo(k)flouranthene	9	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND
Chrysene	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene	3,100	· ND	ND	ND	ND	ND	ND	ND	0.0485	ND	ND
Fluorene	560	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene	1.8	ND	∴ ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	~ 280	ND.	: ND	· ND :: ,:	ND	ND	ND	ND	ND	ND	ND
Pyrene	2,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.

BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.

ND -- Not Detected and the and Descention





CAP-Soil

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SB-29A	SB-29B	SB-29C	SB-29D
8/2/2018	8/2/2018	8/2/2018	8/2/2018
2.5'	9'	12.5'	17.5'

0.0168	ND	ND	0.0582
ND	ND	ND	ND
ND	ND	ND	0.12
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND	ND	ND	ND
ND .	ND	ND	ND
ND	ND.	ND	ND
ND	ND	ND.	ND
ND	ND	ND	ND

SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134 Tel. (708) 544-3260 • Toll Free (800) 783-LABS Fax (708) 544-8587 www.suburbanlabs.com

AUG 1 5 2018

Workorder: 1808461

August 15, 2018

Carol Rowe CWM Company, Inc 701 West South Grand Springfield, IL 62704

TEL: (217) 522-8001 FAX: (217) 522-8009

RE: S and S Infinite Peoria

Dear Carol Rowe:

Suburban Laboratories, Inc. received 14 sample(s) on 8/6/2018 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon Project Manager

708-544-3260 ext 212 keith@suburbanlabs.com

Déul Su





Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: CWM Company, Inc

Date: August 15, 2018

Project: S and S Infinite Peoria
WorkOrder: 1808461

PO #:
OC Level:

Temperature of samples upon receipt at SLI: 2 C

Chain of Custody #: 128334

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

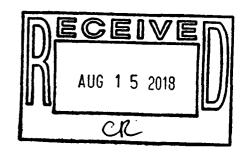
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:



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Created: 8/15/2018 5:58:54 PM



Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-26 A

Matrix: SOIL

Lab ID: 1808461-001

Date Received: 08/06/2018 11:40 AM Collection Date: 08/02/2018 12:10 PM

Parameter	•	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUN	NDS	-	Method:	EPA-8260B-R	ev 2, Dec-96		Analyst: SJ	
Benzene		0.389	0.0138		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
Ethylbenzene	•	1.01	0.0553		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
m,p-Xylene		4.80	0.111		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
Methyl tert-butyl ether	<i>:</i>	ND	0.0553		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
o-Xylene		1.63	0.0553		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
Total Xylenes		6.43	0.111		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
Toluene		4.44	0.0553		mg/Kg-dry	46.210721	08/07/2018 10:56 AM	R99069
Internal Quality Control Compound	<u>nds</u>							
SS: 4-Bromofluorobenzene	ť	100	80-130		%Rec	46.210721	08/07/2018 10:56 AM	R99069
SS: Dibromofluoromethane	::	90.7	76.1-120		%Rec	46.210721	08/07/2018 10:56 AM	R99069
SS: Toluene-d8		100	85-115		%Rec	46.210721	08/07/2018 10:56 AM *	R99069
SEMIVOLATILE ORGANICS, BY	GCMS SIN	М	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene		ND	0.0470	•	mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Acenaphthylene	,	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Anthracene	•	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Benzo(a)anthracene		ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Benzo(a)pyrene	:	ND .	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Benzo(b)fluoranthene		ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Benzo(g,h,i)perylene		ND	0.0470		mg/Kg-dry	· 1	08/11/2018 2:36 AM	53979
Benzo(k)fluoranthene		ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Chrysene		ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Dibenzo(a,h)anthracene	1	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Fluoranthene	•	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Fluorene		ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Indeno(1,2,3-cd)pyrene	•	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Naphthalene		ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Phenanthrene	•	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Pyrene	C	ND	0.0470		mg/Kg-dry	1	08/11/2018 2:36 AM	53979
Internal Quality Control Compound	nds				U -U = 1	•		
SS: 2-Fluorobiphenyl		94.2	72.1-138		%Rec	1	08/11/2018 2:36 AM	53979
SS: 4-Terphenyl-d14		116	45.3-152		%Rec	1	08/11/2018 2:36 AM	53979
SS: Nitrobenzene-d5		99.3	62.6-144		%Rec	1	08/11/2018 2:36 AM	53979
PERCENT MOISTURE	*		Method:	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture	:	17	• 1.0	С	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:56 PM



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Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-26 B

Matrix: SOIL

Lab ID: 1808461-002

Date Received: 08/06/2018 11:40 AM Collection Date: 08/02/2018 12:15 PM

	•	Report			Dilution	
Parameter	Result	Limit	Qual.	Units	Factor Date Analyzed	Batch I

Parameter	Result	Limit	Qual.	Units	Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS	,	Method:	EPA-8260B-Re	v 2, Dec-96		Analyst: SJ	
Benzene	ND	0.0129		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
Ethylbenzene	ND	0.0518		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
m,p-Xylene	ND	0.104		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
Methyl tert-butyl ether .	ND	0.0518		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
o-Xylene :	ND	0.0518		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
Total Xylenes	ND	0.104		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
Toluene	0.0637	0.0518		mg/Kg-dry	45.307091	08/07/2018 11:22 AM	R99069
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	100	80-130		%Rec	45.307091	08/07/2018 11:22 AM	R99069
SS: Dibromofluoromethane	87.7	76.1-120	•	%Rec	45.307091	08/07/2018 11:22 AM	R99069
SS: Toluene-d8	98.8	85-115		%Rec	45.307091	08/07/2018 11:22 AM	R99069
SEMIVOLATILE ORGANICS, BY GO	MS SIM	Method:	EPA-8270C-Re	v 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Acenaphthylene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Anthracene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Benzo(a)anthracene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Benzo(a)pyrene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Benzo(b)fluoranthene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Benzo(g,h,i)perylene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Benzo(k)fluoranthene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Chrysene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Dibenzo(a,h)anthracene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Fluoranthene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Fluorene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Naphthalene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Phenanthrene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Pyrene	ND	0.0450		mg/Kg-dry	1	08/10/2018 11:51 PM	53979
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	94.6	72.1-138		%Rec	1	08/10/2018 11:51 PM	53979
SS: 4-Terphenyl-d14	116	45.3-152		%Rec	1	08/10/2018 11:51 PM	53979
SS: Nitrobenzene-d5	97.2	62.6-144		%Rec	1	08/10/2018 11:51 PM	53979
PERCENT MOISTURE		Method:	ASTM-D2216-F	lev 2005		Analyst: amo	
Percent Moisture	13	1.0	С	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:56 PM



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Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018 Workorder: 1808461

Project Name: S and S Infinite Peoria

Matrix: SOIL

Client Sample ID: SB-26 C

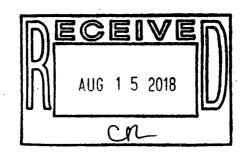
Lab ID: 1808461-003

Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02/2018 12:20 PM

		Report			Dilution		
Parameter	Result	Limit	Qual.	Units	Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-R	ev 2, Dec-96		Analyst: SJ	
Benzene	ND	0.0147		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
Ethylbenzene	ND	0.0589		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
m,p-Xylene	ND	0.118		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
Methyl tert-butyl ether	ND	0.0589		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
o-Xylene .	ND	0.0589		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
Total Xylenes	ND	0.118		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
Toluene	ND	0.0589		mg/Kg-dry	55.819769	08/07/2018 1:13 PM	R99069
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	100	80-130		%Rec	55.819769	08/07/2018 1:13 PM	R99069
SS: Dibromofluoromethane	87.1	76.1-120		%Rec	55.819769	08/07/2018 1:13 PM	R99069
SS: Toluene-d8	97.6	85-115		%Rec	55.819769	08/07/2018 1:13 PM	R99069
SEMIVOLATILE ORGANICS, BY GCM	S SIM	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0415	•	mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Acenaphthylene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Anthracene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Benzo(a)anthracene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Benzo(a)pyrene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Benzo(b)fluoranthene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Benzo(g,h,i)perylene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Benzo(k)fluoranthene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Chrysene	ND	0.0415		mg/Kg-dry	1 .	08/11/2018 12:32 AM	53979
Dibenzo(a,h)anthracene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Fluoranthene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Fluorene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Indeno(1,2,3-cd)pyrene	. ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Naphthalene	ND	0.0415	•	mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Phenanthrene	ND .	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Pyrene	ND	0.0415		mg/Kg-dry	1	08/11/2018 12:32 AM	53979
Internal Quality Control Compounds		, , , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·	•		200.0
SS: 2-Fluorobiphenyl	95.6	72.1-138		%Rec	1	08/11/2018 12:32 AM	53979
SS: 4-Terphenyl-d14	124	45.3-152		%Rec	1	08/11/2018 12:32 AM	53979
SS: Nitrobenzene-d5	95.0	62.6-144		%Rec	1	08/11/2018 12:32 AM	53979
PERCENT MOISTURE		Method:	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture	5.2	1.0	c	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:56 PM



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Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Project Name: S and S Infinite Peoria

Report Date: August 15, 2018

Workorder: 1808461

Cliént Sample ID: SB-26 D

Lab ID: 1808461-004

Matrix: SOIL Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02/2018 12:25 PM

Lab ID: 1808401-004	Date Rec	eived: 00/00/2018	I I . TO ALIVI	Collection	n Date: U8/	02/2018 12:25 PM	
Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-Re	v 2, Dec-96		Analyst: SJ	
Benzene	ND	0.0381		mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
Ethylbenzene	ND	0.152		mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
m,p-Xylene	ND	0.305		mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
Methyl tert-butyl ether	ND	0.152	•	mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
o-Xylene .	ND	0.152		mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
Total Xylenes	ND	0.305		mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
Toluene	ND	0.152		mg/Kg-dry	144.89394	08/07/2018 1:39 PM	R99069
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	80-130		%Rec	144.89394	08/07/2018 1:39 PM	R99069
SS: Dibromofluoromethane	86.4	76.1-120		%Rec	144.89394	08/07/2018 1:39 PM	R99069
SS: Toluene-d8	98.8	85-115		%Rec	144.89394	08/07/2018 1:39 PM	R99069
SEMIVOLATILE ORGANICS, BY GCMS	SIM	Method:	EPA-8270C-Re	v 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Acenaphthylene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Anthracene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Benzo(a)anthracene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Benzo(a)pyrene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Benzo(b)fluoranthene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Benzo(g,h,i)perylene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Benzo(k)fluoranthene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Chrysene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Dibenzo(a,h)anthracene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Fluoranthene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Fluorene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Naphthalene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Phenanthrene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Pyrene	ND	0.0416		mg/Kg-dry	1	08/11/2018 1:13 AM	53979
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	97.5	72.1-138		%Rec	1	08/11/2018 1:13 AM	53979
SS: 4-Terphenyl-d14	126	45.3-152		%Rec	1	08/11/2018 1:13 AM	53979
SS: Nitrobenzene-d5	96.4	62.6-144		%Rec	1	08/11/2018 1:13 AM	53979
PERCENT MOISTURE		Method:	ASTM-D2216-F	Rev 2005		Analyst: amo	
Percent Moisture	5.0	1.0	c	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:57 PM



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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-27 C

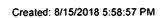
Matrix: SOIL

Lab ID: 1808461-005

Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02/2018 12:40 PM

Lab ID: 180840	01-003	Date Reco	eivea: 08/00/2018	11:40 AM	Collection	n Date: 08/	02/2018 12:40 PM	
Parameter	:	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOU	INDS		Method:	EPA-8260B-R	ev 2, Dec-96		Analyst: SJ	
Benzene		ND	0.0134		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
Ethylbenzene	÷	ND	0.0536		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
m,p-Xylene	•	ND	0.107		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
Methyl tert-butyl ether		ND	0.0536		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
o-Xylene		ND	0.0536		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
Total Xylenes		ND	0.107		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
Toluene	•	ND	0.0536		mg/Kg-dry	51.499670	08/07/2018 2:04 PM	R99069
Internal Quality Control Compo	<u>unds</u>							
SS: 4-Bromofluorobenzene		101	80-130		%Rec	51.499670	08/07/2018 2:04 PM	R99069
SS: Dibromofluoromethane		86.8	76.1-120		%Rec	51.499670	08/07/2018 2:04 PM	R99069
SS: Toluene-d8		101	85-115		%Rec	51.499670	08/07/2018 2:04 PM	R99069
SEMIVOLATILE ORGANICS, B	Y GCMS S	IM	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Acenaphthylene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Anthracene	_	ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Benzo(a)anthracene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Benzo(a)pyrene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Benzo(b)fluoranthene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Benzo(g,h,i)perylene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Benzo(k)fluoranthene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Chrysene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Dibenzo(a,h)anthracene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Fluoranthene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Fluorene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Indeno(1,2,3-cd)pyrene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Naphthalene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Phenanthrene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Pyrene		ND	0.0409		mg/Kg-dry	1	08/11/2018 1:54 AM	53979
Internal Quality Control Compo	unds				· 5 · · · 5 · · · · · · ·	•		322.0
SS: 2-Fluorobiphenyl	:	103	72.1-138		%Rec	1	08/11/2018 1:54 AM	53979
SS: 4-Terphenyl-d14		126	45.3-152		%Rec	1	08/11/2018 1:54 AM	53979
SS: Nitrobenzene-d5		97.3	62.6-144		%Rec	1	08/11/2018 1:54 AM	53979
PERCENT MOISTURE			Method:	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture		3.8	1.0	С	wt%	1	08/06/2018 5:41 PM	R99016





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Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Project Name: S and S Infinite Peoria

Report Date: August 15, 2018

Workorder: 1808461

Client Sample ID: SB-27 D

Lab ID: 1808461-006

Matrix: SOIL

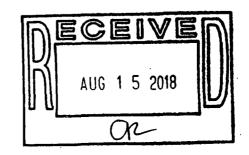
Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02

Collection Date: 08/02/2018 12:45 PM

		D 4			D:14:		
Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-R	ev 2, Dec-96	·	Analyst: SJ	
Benzene .	ND	0.0121		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
Ethylbenzene	ND	0.0485		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
m,p-Xylene	ND	0.0970		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
Methyl tert-butyl ether	ND	0.0485		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
o-Xylene ;	ND	0.0485		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
Total Xylenes	ND	0.0970		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
Toluene	ND	0.0485		mg/Kg-dry	45.442978	08/07/2018 3:21 PM	R99069
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	80-130		%Rec	45.442978	08/07/2018 3:21 PM	R99069
SS: Dibromofluoromethane	87.5	76.1-120		%Rec	45.442978	08/07/2018 3:21 PM	R99069
SS: Toluene-d8	98.5	85-115		%Rec	45.442978	08/07/2018 3:21 PM	R99069
SEMIVOLATILE ORGANICS, BY GCMS SI	IM	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
, Acenaphthene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Acenaphthylene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Anthracene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Decre(e)enthrocene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Benzo(a)pyrene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Benzo(b)fluoranthene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Benzo(g,h,i)perylene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Benzo(k)fluoranthene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Chrysene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Dibenzo(a,h)anthracene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Fluoranthene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Fluorene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Naphthalene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Phenanthrene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Pyrene	ND	0.0420		mg/Kg-dry	1	08/11/2018 2:34 AM	53979
Internal Quality Control Compounds	,,,,	3.3720		g.r.y wij	•	JULIANO E.OT AM	55575
SS: 2-Fluorobiphenyl	103	72.1-138		%Rec	1	08/11/2018 2:34 AM	53979
SS: 4-Terphenyl-d14	121	45.3-152		%Rec	1	08/11/2018 2:34 AM	53979
SS: Nitrobenzene-d5	95.4	62.6-144		%Rec	1	08/11/2018 2:34 AM	53979
PERCENT MOISTURE			ASTM-D2216-		·	Analyst: amo	200.0
Percent Moisture	6.3	1.0	c	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:58 PM



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Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Project Name: S and S Infinite Peoria

Report Date: August 15, 2018

Workorder: 1808461

Client Sample ID: SB-28 A

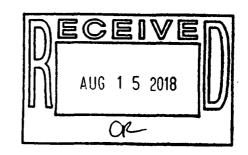
Lab ID: 1808461-007

Matrix: SOIL Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02/2018 12:55 PM

	Collection 2010 10/02/2010 12:35 11v1								
Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II		
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-R	ev 2, Dec-96		Analyst: SJ			
Benzene	ND	0.0174		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
Ethylbenzene	ND	0.0696		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
m,p-Xylene	ND	0.139		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
Methyl tert-butyl ether	ND	0.0696		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
o-Xylene ,	ND	0.0696		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
Total Xylenes	ND	0.139		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
Toluene	ND	0.0696		mg/Kg-dry	65.034729	08/07/2018 3:47 PM	R99069		
Internal Quality Control Compounds									
SS: 4-Bromofluorobenzene	100	80-130		%Rec	65.034729	08/07/2018 3:47 PM	R99069		
SS: Dibromofluoromethane	86.3	76.1-120		%Rec	65.034729	08/07/2018 3:47 PM	R99069		
SS: Toluene-d8	101	85-115		%Rec	65.034729	08/07/2018 3:47 PM	R99069		
SEMIVOLATILE ORGANICS, BY GCMS S	IM	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH			
Acenaphthene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Acenaphthylene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Anthracene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Benzo(a)anthracene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Benzo(a)pyrene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Benzo(b)fluoranthene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Benzo(g,h,i)perylene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Benzo(k)fluoranthene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Chrysene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Dibenzo(a,h)anthracene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Fluoranthene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Fluorene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Indeno(1,2,3-cd)pyrene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Naphthalene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Phenanthrene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Pyrene	ND	0.0423		mg/Kg-dry	1	08/11/2018 3:15 AM	53979		
Internal Quality Control Compounds									
SS: 2-Fluorobiphenyl	101	72.1-138		%Rec	1	08/11/2018 3:15 AM	53979		
SS: 4-Terphenyl-d14	124	45.3-152		%Rec	1	08/11/2018 3:15 AM	53979		
SS: Nitrobenzene-d5	98.1	62.6-144		%Rec	1	08/11/2018 3:15 AM	53979		
PERCENT MOISTURE		Method:	ASTM-D2216	-Rev 2005		Analyst: amo	\		
Percent Moisture	6.5	1.0	с	wt%	1	08/06/2018 5:41 PM	R99016		

Created: 8/15/2018 5:58:58 PM



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Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-28 B

Matrix: SOIL

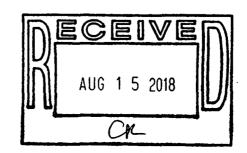
Lab ID: 1808461-008

Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02/2018 1:00 PM

Lab ID: 1808401-008	Date Rec	eiveu: 08/00/2018 1	1.40 AW	Collection	n D ate: 08/	02/2018 1:00 PM	
Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOUNDS		Method: E	EPA-8260B-Re	ev 2, Dec-96		Analyst: SJ	
Benzene	ND	0.0146		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
Ethylbenzene	ND	0.0584		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
m,p-Xylene	ND	0.117		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
Methyl tert-butyl ether	ND	0.0584		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
o-Xylene	ND	0.0584		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
Total Xylenes	ND	0.117		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
Toluene	ND	0,0584		mg/Kg-dry	52.525422	08/07/2018 4:12 PM	R99069
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	102	80-130		%Rec	52.525422	08/07/2018 4:12 PM	R99069
SS: Dibromofluoromethane	87.3	76.1-120		%Rec	52.525422	08/07/2018 4:12 PM	R99069
SS: Toluene-d8	101	85-115		%Rec	52.525422	08/07/2018 4:12 PM	R99069
SEMIVOLATILE ORGANICS, BY GCMS SIN	Л	Method: E	PA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Acenaphthylene	ND '	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Anthracene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Benzo(a)anthracene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Benzo(a)pyrene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Benzo(b)fluoranthene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Benzo(g,h,i)perylene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Benzo(k)fluoranthene	ND	0.0441		mg/Kg-dry	· 1	08/11/2018 3:56 AM	53979
Chrysene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Dibenzo(a,h)anthracene	ND.	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Fluoranthene	0.0485	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Fluorene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Naphthalene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Phenanthrene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Pyrene	ND	0.0441		mg/Kg-dry	1	08/11/2018 3:56 AM	53979
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	102	72.1-138	•	%Rec	1	08/11/2018 3:56 AM	53979
SS: 4-Terphenyl-d14	123	45.3-152		%Rec	1	08/11/2018 3:56 AM	53979
SS: Nitrobenzene-d5	96.5	62.6-144		%Rec	1	08/11/2018 3:56 AM	53979
PERCENT MOISTURE		Method: A	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture	10	1.0	С	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:58 PM



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Suburban Laboratories, Inc.

1950 S. Batavia Avc., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc
Project Name: S and S Infinite Peoria

Report Date: August 15, 2018

Workorder: 1808461

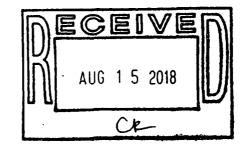
Client Sample ID: SB-28 C

Matrix: SOIL

Lab ID: 1808461-009

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-R	ev 2. Dec-96		Analyst: SJ	
TOLANIE ONORMO COM CONSC				-		, , 22	
Benzene	0.0335	0.0144		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
Ethylbenzene	ND	0.0578		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
m,p-Xylene	ND	0.116		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
Methyl tert-butyl ether	ND	0.0578		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
o-Xylene ·	ND	0.0578		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
Total Xylenes	ND	0.116		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
Toluene	ND	0.0578		mg/Kg-dry	53.64922	08/08/2018 1:55 AM	R99074
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	80-130		%Rec	53.64922	08/08/2018 1:55 AM	R99074
SS: Dibromofluoromethane	88.7	76.1-120		%Rec	53.64922	08/08/2018 1:55 AM	R99074
SS: Toluene-d8	98.8	85-115		%Rec	53.64922	08/08/2018 1:55 AM	R99074
SEMIVOLATILE ORGANICS, BY GCMS	SIM	Method:	EPA-8270C-R	ev 3, Dec-96	,	Analyst: KH	
Acenaphthene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Acenaphthylene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Anthracene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Benzo(a)anthracene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Benzo(a)pyrene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Benzo(b)fluoranthene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Benzo(g,h,i)perylene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Benzo(k)fluoranthene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Chrysene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Dibenzo(a,h)anthracene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Fluoranthene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Fluorene	. ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Naphthalene	ND	0.0429		mg/Kg-dry	1 .	08/11/2018 4:36 AM	53979
Phenanthrene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Pyrene	ND	0.0429		mg/Kg-dry	1	08/11/2018 4:36 AM	53979
Internal Quality Control Compounds	110	0.0723		mg/rtg-uty	•	00/11/2010 4.30 AW	33318
SS: 2-Fluorobiphenyl	103	72.1-138		%Rec	1	08/11/2018 4:36 AM	53979
SS: 4-Terphenyl-d14	121	45.3-152		%Rec	1	08/11/2018 4:36 AM	53979
SS: Nitrobenzene-d5	98.4	62.6-144		%Rec	1	08/11/2018 4:36 AM	53979
PERCENT MOISTURE	••••		ASTM-D2216-		·	Analyst: amo	300.0
Percent Moisture	7.1	1.0	С	wt%	1	08/06/2018 5:41 PM	R99016





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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-28 D

Matrix: SOIL

Lab ID: 1808461-010

Date Received: 08/06/2018 11:40 AM Collection Date: 08/02/2018 1:10 PM

Lab 1D: 1808401-010	Date Rec	civeu. 00/00/2016 11.	To Alvi Collection	on Date: U8	/02/2018 1:10 PM	,
Parameter	Result	Report Limit	Qual. Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA	1-8260B-Rev 2, Dec-96		Analyst: SJ	
Benzene	0.0195	0.0129	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
Ethylbenzene	0.106	0.0514	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
m,p-Xylene	0.114	0.103	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
Methyl tert-butyl ether	ND	0.0514	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
o-Xylene .;	ND	0.0514	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
Total Xylenes	0.114	0.103	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
Toluene	ND	0.0514	mg/Kg-dry	43.535804	08/08/2018 2:20 AM	R99074
Internal Quality Control Compounds						
SS: 4-Bromofluorobenzene	104	80-130	%Rec	43.535804	08/08/2018 2:20 AM	R99074
SS: Dibromofluoromethane .	89.4	76.1-120	%Rec	43.535804	08/08/2018 2:20 AM	R99074
SS: Toluene-d8	98.6	85-115	%Rec	43.535804	08/08/2018 2:20 AM	R99074
SEMIVOLATILE ORGANICS, BY GCMS SIM	1	Method: EPA	1-8270C-Rev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Acenaphthylene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Anthracene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Benzo(a)anthracene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Benzo(a)pyrene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Benzo(b)fluoranthene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Benzo(g,h,i)perylene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Benzo(k)fluoranthene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Chrysene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Dibenzo(a.h)anthracene	ND	0.0467	mg/Kg-dry	. 1	08/14/2018 11:15 AM	53979
Fluoranthene	ND	0.0467	mg/Kg-dry	· 1	08/14/2018 11:15 AM	53979
Fluorene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Naphthalene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Phenanthrene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Pyrene	ND	0.0467	mg/Kg-dry	1	08/14/2018 11:15 AM	53979
Internal Quality Control Compounds		-	0 0 7			
SS: 2-Fluorobiphenyl	86.4	72.1-138	%Rec	1	08/14/2018 11:15 AM	53979
SS: 4-Terphenyl-d14	114	45.3-152	%Rec	1	08/14/2018 11:15 AM	53979
SS: Nitrobenzene-d5	97.7	62.6-144	%Rec	1	08/14/2018 11:15 AM	53979
PERCENT MOISTURE		Method: AST	M-D2216-Rev 2005		Analyst: amo	
Percent Moisture	15	1.0	c wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:59 PM



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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

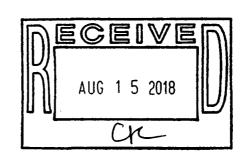
Client Sample ID: SB-29 A

Matrix: SOIL

Lab ID: 1808461-011

		Report			Dilution		
Parameter	Result	Limit	Qual.	Units		Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-R	ev 2, Dec-96	-	Analyst: SJ	
Benzene	0.0168	0.0145		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
Ethylbenzene	ND	0.0579		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
m,p-Xylene	ND	0.116		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
Methyl tert-butyl ether	ND	0.0579		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
o-Xylene	ND	0.0579		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
Total Xylenes	ND	0.116		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
Toluene	ND	0.0579		mg/Kg-dry	51.3938	08/08/2018 2:46 AM	R99074
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	80-130		%Rec	51.3938	08/08/2018 2:46 AM	R99074
SS: Dibromofluoromethane	88.0	76.1-120		%Rec	51.3938	08/08/2018 2:46 AM	R99074
SS: Toluene-d8	98.7	85-115		%Rec	51.3938	08/08/2018 2:46 AM	R99074
SEMIVOLATILE ORGANICS, BY GCMS SI	М	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Acenaphthylene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Anthracene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Benzo(a)anthracene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Benzo(a)pyrene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Benzo(b)fluoranthene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Benzo(g,h,i)perylene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Benzo(k)fluoranthene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Chrysene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Dibenzo(a,h)anthracene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Fluoranthene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Fluorene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Naphthalene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Phenanthrene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Pyrene	ND	0.0449		mg/Kg-dry	1	08/14/2018 11:57 AM	53979
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	93.3	72.1-138		%Rec	1	08/14/2018 11:57 AM	53979
SS: 4-Terphenyl-d14	127	45.3-152		%Rec	1	08/14/2018 11:57 AM	53979
SS: Nitrobenzene-d5	89.8	62.6-144		%Rec	1	08/14/2018 11:57 AM	53979
PERCENT MOISTURE		Method:	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture	11	1.0	С	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:58:59 PM



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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Project Name: S and S Infinite Peoria

Report Date: August 15, 2018

Workorder: 1808461

Client Sample ID: SB-29 B

Lab ID: 1808461-012

Matrix: SOIL

Date Received: 08/06/2018 11:40 AM Collection Date: 08/02/2018 1:20 PM

Lab ID: 1808401-012	Date Rec	eivea: 08/08/2018 1	11:40 AM	Collection	n Date: 08/	/02/2018 1:20 PM	
Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-R		ev 2, Dec-96		Analyst: SJ	
Benzene ·	ND	0.0142		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
Ethylbenzene	ND	0.0570		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
m,p-Xylene	ND	0.114		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
Methyl tert-butyl ether	ND	0.0570		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
o-Xylene	ND	0.0570		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
Total Xylenes	ND	0.114		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
Toluene	ND	0.0570		mg/Kg-dry	54.459112	08/08/2018 3:11 AM	R99074
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	102	80-130		%Rec	54.459112	08/08/2018 3:11 AM	R99074
SS: Dibromofluoromethane	88.7	76.1-120		%Rec	54.459112	08/08/2018 3:11 AM	R99074
SS: Toluene-d8	99.8	85-115		%Rec	54.459112	08/08/2018 3:11 AM	R99074
SEMIVOLATILE ORGANICS, BY GCMS SIN	1	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Acenaphthylene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Anthracene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Benzo(a)anthracene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Benzo(a)pyrene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Benzo(b)fluoranthene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Benzo(g,h,i)perylene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Benzo(k)fluoranthene	ND	0.0412		mg/Kg-dry	1 .	08/14/2018 12:41 PM	53979
Chrysene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Dibenzo(a,h)anthracene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Fluoranthene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Fluorene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Naphthalene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Phenanthrene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Pyrene	ND	0.0412		mg/Kg-dry	1	08/14/2018 12:41 PM	53979
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	101	72.1-138		%Rec	1	08/14/2018 12:41 PM	53979
SS: 4-Terphenyl-d14	126	45.3-152		%Rec	1	08/14/2018 12:41 PM	53979
SS: Nitrobenzene-d5	92.6	62.6-144		%Rec	. 1	08/14/2018 12:41 PM	53979
PERCENT MOISTURE		Method:	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture	4.5	1.0	С	wt% .	1	08/06/2018 5:41 PM	R99016







1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-29 C

Matrix: SOIL

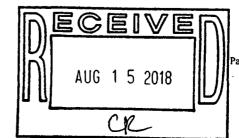
Lab ID: 1808461-013

Date Received: 08/06/2018 11:40 AM

Collection Date: 08/02/2018 1:25 PM

		Report			Dilution		
Parameter	Result	Limit	Qual.	Units		Date Analyzed	Batch I
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			,		
Benzene	ND	0.0148		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R99074
Ethylbenzene	ND	0.0593		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R99074
m,p-Xylene	ND	0.119		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R99074
Methyl tert-butyl ether	ND	0.0593		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R9907
o-Xylene	ND	0.0593		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R9907
Total Xylenes	ND	0.119		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R9907
Toluene	ND	0.0593		mg/Kg-dry	57.004743	08/08/2018 3:36 AM	R9907
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	80-130		%Rec	57.004743	08/08/2018 3:36 AM	R9907
SS: Dibromofluoromethane	88.8	76.1-120		%Rec	57.004743	08/08/2018 3:36 AM	R9907
SS: Toluene-d8	99.2	85-115		%Rec	57.004743	08/08/2018 3:36 AM	R9907
SEMIVOLATILE ORGANICS, BY GCMS SIN	1	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0416	•	mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Acenaphthylene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Anthracene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Benzo(a)anthracene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Benzo(a)pyrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Benzo(b)fluoranthene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Benzo(g,h,i)perylene	ND	0.0416	•	mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Benzo(k)fluoranthene	ND	0.0416		mg/Kg-dry	. 1	08/14/2018 1:24 PM	5397
Chrysene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Dibenzo(a,h)anthracene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Fluoranthene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Fluorene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Indeno(1,2,3-cd)pyrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Naphthalene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Phenanthrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Pyrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 1:24 PM	5397
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	97.9	72.1-138		%Rec	1	08/14/2018 1:24 PM	5397
SS: 4-Terphenyl-d14	111	45.3-152		%Rec	1	08/14/2018 1:24 PM	5397
SS: Nitrobenzene-d5	92.3	62.6-144		%Rec	1	08/14/2018 1:24 PM	5397
PERCENT MOISTURE		Method:	ASTM-D2216-I	Rev 2005		Analyst: amo	
Percent Moisture	3.9	1.0	С	wt%	1	08/06/2018 5:41 PM	R9901

Created: 8/15/2018 5:59:00 PM





1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc

Report Date: August 15, 2018

Project Name: S and S Infinite Peoria

Workorder: 1808461

Client Sample ID: SB-29 D

Matrix: SOIL

Lab ID: 1808461-014

Date Received: 08/06/2018 11:40 AM

Lab ID: 1808461-014	Date Rec	eived: 08/06/2018 1	11:40 AM	Collection	n Date: 08/	02/2018 1:30 PM	
Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch II
an ameter			- Quan		-	Date Analyzed	- Datell II
VOLATILE ORGANIC COMPOUNDS		Method:	EPA-8260B-R	ev 2, Dec-96		Analyst: SJ	
Benzene	0.0582	0.0189		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
Ethylbenzene .	ND	0.0756		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
m,p-Xylene	ND	0.151		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
Methyl tert-butyl ether	ND	0.0756		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
o-Xylene	ND	0.0756		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
Total Xylenes	ND	0.151		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
Toluene	0.120	0.0756		mg/Kg-dry	71.865927	08/10/2018 1:40 PM	R99226
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	80-130		%Rec	71.865927	08/10/2018 1:40 PM	R99226
SS: Dibromofluoromethane	90.4	76.1-120		%Rec	71.865927	08/10/2018 1:40 PM	R99226
SS: Toluene-d8	99.2	85-115		%Rec	71.865927	08/10/2018 1:40 PM	R99226
SEMIVOLATILE ORGANICS, BY GCMS SII	м	Method:	EPA-8270C-R	ev 3, Dec-96		Analyst: KH	
Acenaphthene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Acenaphthylene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Anthracene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Benzo(a)anthracene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Benzo(a)pyrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Benzo(b)fluoranthene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Benzo(g,h,i)perylene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Benzo(k)fluoranthene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Chrysene	ND	0.0416		mg/Kg-dry	· 1	08/14/2018 2:09 PM	53979
Dibenzo(a,h)anthracene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Fluoranthene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Fluorene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Indeno(1,2,3-cd)pyrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Naphthalene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Phenanthrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Pyrene	ND	0.0416		mg/Kg-dry	1	08/14/2018 2:09 PM	53979
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	98.4	72.1-138		%Rec	1	08/14/2018 2:09 PM	53979
SS: 4-Terphenyl-d14	126	45.3-152		%Rec	1	08/14/2018 2:09 PM	- 53979
SS: Nitrobenzene-d5	92.6	62.6-144		%Rec	1	08/14/2018 2:09 PM	53979
PERCENT MOISTURE		Method:	ASTM-D2216-	Rev 2005		Analyst: amo	
Percent Moisture	4.9	1.0	С	wt%	1	08/06/2018 5:41 PM	R99016

Created: 8/15/2018 5:59:00 PM



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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Project: CWM Company, Inc

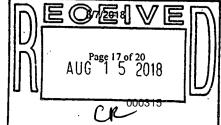
S and S Infinite Peoria

Report Date: August 15, 2018

Lab Order: 1808461

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1808461-001A	8/2/2018 12:10:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-001B		53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-002A	8/2/2018 12:15:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-002B		53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-003A	8/2/2018 12:20:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC	,	8/7/2018
1808461-003B		53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-004A	8/2/2018 12:25:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-004B	•	53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-005A	8/2/2018 12:40:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-005B	1	53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-006A	8/2/2018 12:45:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-006B	12	53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-007A	8/2/2018 12:55:00 P	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-007B		53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-008A	8/2/2018 1:00:00 PM	. 53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-008B	:. *	53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-009A	8/2/2018 1:05:00 PM	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-009B		53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-010A	8/2/2018 1:10:00 PM	53971	5035PR .	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-010B		53979	3550SIM_B	SOLID PREP SONICATION: BNA		8/7/2018
1808461-011A	8/2/2018 1:15:00 PM	53971	5035PR	CLOSED SYSTEM P&T VOC		8/7/2018
1808461-011B		53979	3550SIM_B	Prep SOLID PREP SONICATION: BNA		8/7/2018
1808461-012A	8/2/2018 1;20:00 PM	53971	5035PR	CLOSED SYSTEM P&T VOC	,	8/7/2018
1808461-012B		53979	3550SIM_B	Prep SOLID PREP SONICATION:		8/7/2018
1808461-013A	8/2/2018 1:25:00 PM	53971	5035PR	BNA CLOSED SYSTEM P&T VOC		8/7/2018
1808461-013B	:	53979	3550SIM_B	Prep SOLID PREP SONICATION:		8/7/2018
1808461-014A	8/2/2018 1:30:00 PM	53971	5035PR	BNA CLOSED SYSTEM P&T VOC		8/7/2018
1808461-014B		53979	3550SIM_B	Prep SOLID PREP SONICATION: BNA		

Created: 8/15/2018 5:59:01 PM





1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: 1808461 Date: 8/15/2018

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
В	Analyte detected in the associated Method Blank
С	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
Н	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



Page 18 of 20

SUBURBAN LABO							OF CUSTOD			128	33	34
Company Name		Tel. 708			708.544.8	1587 Toll Free: QUESTED	800.783.LABS ww	w.suburbanlabs.com	-	e \ of	7	of
COMPANY Address 200 Company Address		_{bd} ,	Normal	AROUND R		Additional Rush	i	HOD REQUESTED	Page			<u> </u>
City Colors 701 S. Grand Ave	- 4 7in				Ch	arges Approved.	Enter an "X" in bo	x below for request	Shipe	oing Method		Page
city Springfield , State It	62 +09		& Time N			-1						
Phone (217) 522-8001 / Fax 8009	<u> </u>					ation or fee schedule. itional charges apply.	ا این			orting Level (at litional charge)	1	2 3 4
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Project D/Location Tufinite / Peeri			LUST	☐ SF	RP	SDWA `	155		SLIC	RDER NO.	46	.
Project Manager (Report to) L. Rowe	`, 		503 Slud	ge 🔲 NF	PDES	☐ MWRDGC	1 23			ample containe	13	Yes
Sample Collector(e) Name			Disposat	Ot	her* 'Ple	ase specify in comment			Te	pplied by custom emperature of	<u> </u>	
MJS/GTR	1	$\frac{1}{1}$	T			on below.	4		Sa	celved Samples amples received	the	☐ Yes
SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE TIME	-i I	GRAB/	CONTA Qty SIZE	INERS & TYPE	PRESERVATIVE			sam R	. Condition		
1 5B-26 A	8 12/18/12:10	1 			L/40Z.				╫	Condidon	Spire	1
2 SB-26 B	1 1 12:15		Ť	1	Í	, , , , , , , ,			1.1	21 11 21		2
3 SB-26 C	1 1 12:20	 	1	1	100000		ar rie vie			··	\vdash	3
4 5B-26 D	/ / /2:2	+ + +		11 /	Printed Str.							Ý
5 SB-27C	1 12:4	a	11	14	14.00 P					Free.	\Box	- 3
6 SB-27 D	1 10123	Sacresol	¥ 470			1944 A-1879			1	e distribute of		6
7 5B-28 A	/ /2:5	1 1959 See 1966 See 6			12.00	7 202	11 11 1 1			juni.	-	7
8 58-28 B	, 1:00				1999	4 44			100	er eller		8
9 5B-38 C	1 1:03	786		1 10	9400				1.		П	7
10 SB-28 D	1 1:10			12240	(107/10/kg);	Ear C					:	10
11 SB-29 A	1 1 1:15									Sign of a		11_
12 58-298	1:20	2	$\sqrt{}$	V	/			序 W F		$\overline{\mathbf{N}}$		ί'n
MATRIX: Drinking Water (DW), Soli (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA),	SPECIAL INSTRUCTIO	NS:			4,				12.hm	CONDITION OF CONDI	ton	iner/cap
Sludge (U), Wipe (P) <u>CONTAINER;</u> 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube,							AU(1 5 2018	3 Ins	inficient sample	volum bles fo	e or VOCs
Glass (G). Plastic (P) PRESERVATIVE:							ע ען		F.E.	coived past hold	ding tin	пе
H ₂ SO ₄ , HCI, HNO ₃ , Methanol (MeOH)			•	_			CK	-		ceived frozen beliconflicts with	· coc	
NaOH, Sodium Bisulfote (NaB), NaThio 1. Relinquished By Date	2. Religiouished By	7/2	Date	1/0	3. Relingu	Ispled By C 1			7. 63	Seifounicz with	Date	
1 Mother X/A 18/2/0	8 MAASOL		8/	418	T.	7/000	Date 8/6/18				<u>_</u>	
Respired by Stop Present 5.00 Pm	1 Roceived & Tall	1 AQ	lœ Time	:38A/:	Recoived	Ž-	present 1.40 G	Received By		lce present		
Submission of samples subject to Terms and Cor	nditions on back.			Rev. 07/	20/08			W	nite-O	riginal, Pin	k0୍ରଚି	Abler Copy

SUBURBAN LABO	PRATORI	ES, I	nc.				CHAIN C)F	CUS	TODY	RECORE	7#	101	22	05
• 1950 S. Batavia Ave., Ste 150), Geneva, IL 6	0134	Tel. 70	8.544.32	60	Fax: 708.544.8	587 Toll Free:	800.	783.LA	BS www.s	uburbanlabs.con	<u> </u>	133	<u>) ၁</u>	<u>၀ွ၁</u>
CWM COMPANY, Inc.					NAR	OUND TIME REC			ANALY	SIS & METHO	D REQUESTED	Pag		2	, 0 of
Company Address S. Grand Ave. W.				Normal		RUSH* *A	dditlonal Rush arges Approved.		Enter a	n "X" in box be	alow for request	PON	lo.		age 7
city Socionafield State IL	Zip 627	204	*Da	te & Time	Need	led:				\top		Shipp	ping Method		
(217) 522-8001 Fax 800						ified on the price quota pre-approved and addi		نيزا					porting Level (at ditional charge)	1	2 3 4
Email Address CWMCOMPANY, CON		Final	Report S	pecify Reg	ulato	ory Program:	None/Info Only	MTBE			1	X T	LAB US	ΕO	NLY
Project ID / Location c	nia	WILLDE	emailed	(LUST	equire	ed) SRP	SDWA		A.			SLI ORDER No. 10 00 11/1			
Project Manager (Report to)	71.00			503 Slu	dge	■ NPDES	☐ MWRDGC	X	P				Sample containe		<u> </u>
Sample Collector(s) Name			─ -	Disposa	ıl		ase specify in comment	5 E				T-T	emporature of	135	9
7.705/			<u> </u>	T	Г		on below.						ceived Samples: amples received me day as collect	1	∠ □ Yes
SAMPLE IDENTIFICATION "Use One Line Per Preservation & Container Type"	COLLECTION DATE	ON TIME	MATRIX	GRAB/	ay	SIZE & TYPE	PRESERVATIVE			1 1 1		_	Condition		
1 SB-29 C	8 12 118	1:25	<u> </u>		2/1	40ml/402.	Neo+/None	7	x	+ + +			eradinas:	()/	13
2 SB-29D	11/1	1:30	J.	1		1. 7 900	1	Î	Î						1/
3	1 1	•		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		45000			1222 (S)	111		11.0	94464		
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5	, , ,							10000			 	100 mg	2007 C		
6			Saviezvine		,		The Marie			1 1 1	+				er ann Middel
7	, ,		TOTAL						+	 					
8	, , ,						CACCELEGIC					1/4			
9	, ,	Value of the same	4.2 (1.002)					<i>(</i>	_	+++		1.5			
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11	'''''			-				 	\vdash	+	 				
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	SPECIAL INSTR	UCTION	S:		<u> </u>		<u> </u>	##				1	CONDITIO		
Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA),									刀			11 11	oper/damaged		ner/cap
Sludge (U), Wipe (P) <u>CONTAINER;</u> 2oz,									M	AUG 1	5 2018		ufficient sample		
4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube. Glass (G), Plastic (P) <u>PRESERVATIVE</u> ;								\parallel		AUU I	2 2010	4. H	epoived past hold	bles fo ding tin	ir VOCs no
H ₂ SO ₄ , HCl, HNO ₃ , Methanol (MeOH)								1		010		5. Re	eceived frozen		
NaOH, Sodium Bisulfate (NaB), NaThio	0.00	0	9-/-	la		- 10 Outroom			10.	CR	la commencia de		abel conflicts with		
1. Relinquished By 8/2/1	8 Relinquished	/////	1/-	Date	10	18 3. Relinqui	7/av	<u>(</u>	_\3	16/18	4. Relinquished By	-	j	Date	
Reserved By Time present 5:PD P	Received By	Yall	Æ	1 ke Time	3.	OF M. Received	3y		Ico Tin	11.40a	Received By		O Ice		
Submission of samples subject to Terms and Con		, ~~~	pro	esent S		Rev. 07/20/08	11/	pre	sent	111 1000		hite-C	present Original Pin	_	angler Conv



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

Λ	Sita	Ida	ntifi	ation
Α.	2116	IUE	ENLINE	anor

IEMA Incident # (6- or 8-digit):	20161089	IEPA LPC# (10-digit): 1430650114
Site Name: S & S Infinite Grou	p, Inc.	
Site Address (Not a P.O. Box):	400 North East Adams Street	·. <u>2</u>
City: Peoria	County: Peoria	ZIP Code: 61603
		1

Leaking UST Technical File

B. Sample Collector

I certify that:

- 1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
- 2. Chain-of-custody procedures were followed in the field.
- 3. Sample integrity was maintained by proper preservation.
- 4. All samples were properly labeled.



ic

MTS
(Initial)
MJS
(Initial)
(Initial)
(Initial)

C. Laboratory Representative

I certify that:

- 1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
- 2. Sample integrity was maintained by proper preservation.
- 3. All samples were properly labeled.
- 4. Quality assurance/quality control procedures were established and carried out.
- Sample holding times were not exceeded.

(Initial)
(Initial)
(Initial)
(Initial)
(Initial)
(Initial)

IL 532 2283 LPC 509 Rev. March 2006 Laboratory Certification for Chemical Analysis
Page 1 of 2

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

(Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector	Laboratory Representative
Name Matthew Saladino	Name Keith Sinon
Title Environmental Engineer	Title Project Manager
Company CWM Company, Inc.	Company Suburban Laboratories, Inc.
Address 701 South Grand Ave. West	Address 1950 S. Batavia Ave Ste 150
City Springfield	City Geneva
State IL	State IL
Zip Code 62704	Zip Code 60134
Phone 217-522-8001	Phone 708-544-3260
Signature Wulfart & 4	Signature <u>Sett</u>
Date <u>4/2/18</u>	Date 8/15/18



APPENDIX G TACO CALCULATIONS

CORRECTIVE ACTION PLAN AMENDMENT S&S Infinite Group Peoria, Illinois

R-26 Input/Summary Sheet

		R-26 Input/St	ımmary Sheet			•				
Ver	sion: 4/25/2016	·						1		
IEMA Incident # (6		2016-1089						•		
IEPA LPC # (10 di	git)	1430560114								
Site Name:		S & S Infinite Group, Inc	DBA Downtow	n 66				٠		
Site Address:		400 North East Adams								
City:		Peoria						_:		
County:		Peoria						- :-		
Zip Code:		61603						٤		
SSL Equations Us		\$5,6,7,8,9,10,17,18,19,20,21	,22,24							
RBCA Equations		R-1, R-2, R3								<u> </u>
	or Individual who Performed Calculate		lan Madean					<i>[</i> !		
Land Use:	7 yeard in Bac.	Residential & Construct	IOII VVOIKEF							
Objective from S1	17 used in R26:	No Class 1						-:		
Groundwater: Standard or Mass	I Imit Equations:	Standard Equations		If NAO	no I impit th	on Sno	cifiy Acres:			
Square Feet of Pl	ume for Mass Limit Eq.;	0.00		II IVIA	SS Limit, tri	en Spe	cilly Acres.	< 1150	this#	ahove
Date Data is Enter		February 20, 2018						- 4	uno m	above
Entry	Description	1. 05.44.7 20, 2010								
	Holcomb Bulk Density (pcf),	or	Shelby Tub	e Location				<u> </u>		
2.15	Dry Soil Bulk Density (g/cm	or kg/L): 1.5, or Gravel =2.0, 5				ite spe	cific	(1) (1)		
2.69	ρs - Soil Particle Density		Reference							
0.201	Total Soil Porosity		0.201	0.201				42		
0.092	Water Filled Porosity		0.092	0.092	?			Ę.		
0.109	Air Filled Porosity		0.109	0.109)					
0.250	θ _T - Total Soil Porosity (RBC	A)	0.43 or, Gravel -	0.25; Sand	= 0.32; Silt	= 0.40;	Clay = 0.36	-:		
0.094	w - Average Soil Moisture Co	ontent	0.1, or: Subsurface	Soil (top 1m)	= 0.1; Subsu	rface So	il (below 1 m)	=0.2; or	Site Spe	cific
Sand	USDA Soil Classification (Pid	ck from List)						Er		
					0	rganic	Matter (%):	٠,٠		•
0.01360	Fractional Organic Carbon	(foc) in g/g			Organ	ic Mat	er (mg/kg):			•
	<u> </u>	·			Total Org	anic Ca	arbon (g/g):	0.0	136	••
1.00E-04	Average Hydraulic Conductivity	(cm/sec) Well Name						· · ·		
1.00E-04	Falling Hydraulic Conductivity (c	m/sec) Unknown	l							
	Rising Hydraulic Conductivity (c	m/sec)		F	lydraulic G	Sradien	t Calculation	าร	•	•
0.02000	Hydraulic Gradient (0.02 for site	es with no groundwater)	Meters		MW-3				1.02	
10	d _e - Aquifer Thickness (ft)		3.048 m		MW-11.		-	У,	.,1.00	
10	d Depth of Source (fl) (Vertical Th	ickness of Contemination)	3.048 m	ł	· · ·	•	Distance:		. 1	
		the groundwater plume emanating to				•				
	selback zone or surface water from	the source in the direction of	0 cm					12.		
	groundwater flow (ft) (RBCA)							. <u>1</u> 2 .	_	
65	L - Source Length Parallel to	Groundwater Flow (ft)	19.812 m							
30	Sw: Source Width -horizonta		914.4 cm			٠,٠	2			
				l		•		<u>u</u>	:	
C ₄₄ - Concentra	ation of Contaminant in groundy	vater at distance X from the so	urce (ma/L)	- `	Surface	Water	• ,	Ψ.	•	
	Benzene	MTBE	(3 - 7	urre u u	-			÷		
-	Toluene						•	ाहे. उत्तर		
	Ethylbenzene						.:	Jog Salty		
	Total Xylenes							Š		
	Chemicals of Conce	m						<u> </u>		
Benzene E	Naphthalene							Ŧ.		
Toluene		Chrysene				٠.		1.		
Ethylbenzene		Benzo(k)fluoranthene			•					
Total Xylenes		Indeno(1,2,3-cd)pyrene			•	÷.	į.	2:		
MTBE	,							(2) (1) (1)		
			•					1.	. :	

Mass Limit Equations

SSL Equations Needed

- □ Inhalation Equations
- □ Groundwater Ingestion Equations
- □ Fugitive Dust Equations

And the second s

Text discussion for "I", L, da, da, Sw, Sd

Hydraulic Gradient

The Hydraulic Gradient (i) was determined from an onsite survey of each of the groundwater monitoring wells. The riser elevations were determined and the depth to groundwater was noted in each well. This data was used to generate a potentiometric flow map with contour lines which show potentiometric head. A corresponding flow line, perpendicular to the contour lines, was determined between two known points of groundwater elevation. The hydraulic gradient was determined by the difference in elevation divided by the length of flow between the points.

Source Length

The Source Length Parallel to Groundwater Flow (L) was determined from the site map and analytical results. A value of 45.1104 m was used to encompass the length of contamination parallel to groundwater flow. This value is the distance between soil borings BH-1 and BH-2.

Aquifer Thickness

The Aquifer Thickness (d_a) is a site specific value determined by the length of the monitoring well screen. "The Aquifer Thickness value used in the modeling equations was 3.048 meters.

Depth of Source

The Depth of Source (d_s) was determined from the analytical results and soil boring logs. A value of 3.048 m was used to encompass the vertical thickness of contamination based upon a clean soil sample at BH-1A, "hot" samples at BH-2B and BH-2C, and a clean soil sample at BH-2D. Thus the vertical thickness of soil contamination has been determined to be 3.048 m.

Source Width

The source width perpendicular to groundwater flow direction in the Horizontal Plane (S_w) was determined from the site map and analytical results. A value of 3566.16 cm was used to encompass the width of contamination in the horizontal plane. This value is the distance between clean wells MW-4 and and MW-6.

Source Depth

The source width perpendicular to groundwater flow direction in the Vertical Plane (S_d) was determined from the soil boring logs and analytical results. A value of 304.8 cm was used to encompass the width of contamination in the vertical plane based on the depths of contamination present and the PID readings from the bore logs.

Distance (X)

			BENZ	ENE	
	Soll Exceed	ances			Groundwater Exceedances ,
	Soil	Х	Gw _{obj} (mg/L)	C(x)	Groundwater X C(x
Location	Concentration (mg/kg)	(ft)	R26 Csource	(mg/L)	Location Concentration (mg/L) (ft) (mg/
backfill 3	1.37	70	0.093	0,0049	1 Na 1
WC-1	43.3	159	2.948	0.0049	- X
WC-3	9.79	117	0.666	0.0049	
SB-26A	0.389	43	0.026	0.0048	
SB-28C	0.0335		0.002	0.0010	
SB-29D	0.0582		0.004		
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			Toluc	ene				
	Soll Exceeds	ances				Groundwater Exceed	dances	
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X. ≅ (ft)	C(x) (mg/L)
	T :			, <u> </u>			1 3 C	
backfill 3	29.6		0.671				5 45. 5°	;
WC-1	611	7	13.853	0.9515		4.14	· · · · · · · · · · · · · · · · · · ·	
WC-3	161	4	3.650	0.6916			-	
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WC-1 WC-3	Soll Exceeds Soil Concentration (mg/kg)	ances X (ft)	Ethylbe Gw _{obj} (mg/L)	C(x)		Groundwater Exceed Groundwater	dances	C(x)
WC-1				C(x)		Groundwater	X	C(v)
WC-1 WC-3			R26 Csource	(mg/L)	Location			(mg/L)
WC-1 WC-3					-			
WC-3	146	8	1.655	0.6304	-		ic .	
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			Total Xy	lenes	-		. 4 ·	•
	Soil Exceed	ances				Groundwater Exceed	dances	
	Soil	X	Gw _{obj} (mg/L)	C(x)	l a antino	Groundwater .	提 X 通 (ft)	C(x)
Location	Concentration (mg/kg)	(ft)	R26 Csource	(mg/L)	Location	Concentration (mg/L)	:a (n)	(mg/L)
			 			· · · · · · · · · · · · · · · · · · ·	, 84 g	
backfill 3	39		0.357		 -		- 	,
WC-1	816		7.460		+	•	57 :	
WC-3	258		2.359				23	<u> </u>
SB-26A	6.43		0.059					<u> </u>
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	Soll Exceeda				<u> </u>	Groundwater Excee	dances	
	Soil	X	Gw _{obj} (mg/L)	C(x)		Groundwater	~ X	C(x)
Location	Concentration (mg/kg)	(ft)	R26 Csource	(mg/L)	Location	Concentration (mg/L)	(ft)	(mg/L
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			Naphth	alene			18 A	
	Soil Exceed:	ances				Groundwater Excee	dances	
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater . Concentration (mg/L)	: 15 X ::: (ft)	C(x) (mg/L)
11	80.9	14	0.591046384	0.1379			· 2	\ <u>g.s</u> ,
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			Benzo[a]	pyrene			(\$2				
	Soll Exceed	ances			Groundwater Exceedances						
	Soil	Х	Gw _{obj} (mg/L)	C(x)		Groundwater	≗ X	C(x)			
Location	Concentration (mg/kg)	(ft)	R26 Csource	(mg/L)	Location	Concentration (mg/L)	(ft)	(mg/L)			
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and the second s		···· (mg/L)	•							
·		Most Stringent	Class I	Class II	ADLs					
	Parameter	CUO	GW	GW	(U)					
	Benzene	0.005	0.005	0.025	<0.002					
	Ethylbenzene	0.7	0.7	1	<0.002					•
	MTBE	0.07	0.07	0.07	<0.005	•				
	Toluene	1.0	1.0	2.5	<0.002					
•	Total Xylenes	10.0	10.0	· 10.0	<0.005					
	Acenaphthene	0.42	0.42	2.1	<0.018					
	Acenaphthylene [^]	0.21	0.21	1.05	<0.010					
	Anthracene	2.1	2.1	10.5	<0.0066					
•	Benzo(a)anthracene	0.00013	0.00013	0.00065	<0.00013					
	Benzo(a)pyrene	0.0002	0.0002	0.002	<0.0002					
	Benzo(b)fluoranthene	0.00018	0.00018	0.0009	<0.00018					
,	Benzo(g,h,i)perylene^	0.21	0.21	1.05	<0.00076					
	Benzo(k)fluoranthene	0.00017	0.00017	0.00085	<0.00017					
	Chrysene	0.0015	0.0015	0.0075	<0.0015					
	Dibenz(a,h)anthracene	0.0003	0.0003	0.0015	<0.0003					
	Fluoranthene	0.28	0.28	1.4	<0.0021					
	Fluorene	0.28	0.28	1.4 :	<0.0021					
	Indeno(1,2,3-cd)pyrene	0.00043	0.00043	0.00215	<0.00043		•	•	•	
	Naphthalene .	0.14	0.14	0.22	<0.010					
	Phenanthrene [^]	0.21	0.21	1.05	<0.0064					
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Summary of Tier 2 Calculations S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089 02/20/18

Table 3

Tier 1 Objectives

	Benzene		Toluene		Ethylbenzen	e	Total Xylene	:s	Naphthalen	e _	MTBE	
Residential Ingestion	12	. mg/kg	16,000	mg/kg	7,800	mg/kg	16,000	mg/kg	1,600	mg/kg	780	mg/kg
Inhalation	0.8	≀ mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	170	mg/kg	8,800	mg/kg
Migration Class 1	0.03	mg/kg	12 1	mg/kg	13	mg/kg	150	, mg/kg	12	mg/kg	0.32	mg/kg
Migration Class 2	0.17	r mg/kg	29 1	mg/kg	19	· mg/kg	150	mg/kg	18	← mg/kg	0.32	mg/kg
Industrial/Commercial Ingestion	100	mg/kg	410,000	mg/kg	200,000	mg/kg	410,000	mg/kg	41,000	mg/kg	20,000	mg/kg
Inhalation	1.60	ı mg/kg	650	mg/kg	400	mg/kg	320	: mg/kg	270	mg/kg	8,800	mg/kg
Construction Worker Ingestion	2,300	mg/kg	410,000	mg/kg	20,000	mg/kg	41,000	mg/kg	4,100	mg/kg	2,000	mg/kg
Inhalation	2.20	I mg/kg	42	mg/kg	58) mg/kg	5.6	mg/kg	1.80	mg/kg	140	mg/kg
Soil Saturation	580	mg/kg	290	mg/kg	150	mg/kg	110	ı mg/kg	212.16	mg/kg	8,400	mg/kg

Tier 2 SSL Objectives

		Benzene	Equation	Toluene	Fouation	Ethylbenzene	Fauation	Total Xvienes	Equation	Naphthalene	Equation	MTBE	
Residential	Ingestion	11.64 (S-2	6,257	S-1	7.821	S-1	15,643	S-1	1.564	S-1	782.1	S-1
	nhalation	1.94 1	S-6	52,029.80	S-4	14,496,77	S-4	1.782.86	S-4	246.63	S-4	29,111,06	S-4
Migration Mass-Limi	it Class 1	0.19	S-28	38.45	S-28	26.92	S-28	384.54 I	S-28	5.38	S-28	2.69	S-28
Migration	n Class 1	0.073	S-17	44.11	S-17	61.76	S-17	1,093.87	S-17	19.16	S-17	0.28	S-17
Industrial-Commercial	Ingestion	104.06	S-2	1,635,200	S-1	204,400	S-1	408,800	S-1	40,880	S-1	20,440	Ş-1
1	nhalation	3.70 I	S-6	82,835.85	Ş-4	23,080.08	S-4	2,838.46	S-4	392.66	S-4	46,347.27	S-4
Migration Mass-Limi	it Class 1	0.19	S-28	. 38.45 I	S-28	26.92	S-28	384.54	S-28	5.38	S-28	2.69	\$-28
Migration	n Class 1	0.073	S-17	44.11	S-17	61.76 I	S-17	1,093.87	S-17	19.16	S-17	0.28	S-17
Construction Worker	Ingestion	2,258.21	S-3	163,236	S-1	10,202	S-1	81,618	S-1	122,427	S-1	20,405	S-1
	nhalation	5.21 i	S-7	535.89	S-5	1,343.80	S-5	73.45 」	S-5	2.54	S-5	249.86	S-5
Soil Saturation		1,322.01	\$-29	1,168.82	S-29	749.91	S-29	601.63	S-29	212.16	S-29	10,221.04	S-29

all values are in mg/kg

Site Specific Value cannot exceed Soil Saturation Limit, otherwise Tier 2 Inhalation or Tier 2 Migration objectives are the Soil Saturation objective

Groundwater Contaminate Concentration Exceedances at Surface Water or Set Back Zone (mg/L)

		:		Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE		
•			Result	#DIV/0!	R-26	#DIV/01	R-26	#DIV/01	R-26	#DIV/0!	R-26			#DIV/0!	R-26	l .
		Surface Water Ob	jective "	0.86	Y	0.6		- 0.014		0.36	•		L			
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Location	- (m	/(Equation				GW C_/	OF		30.48 cm		R-18: 0, •	0.10 · X	- 1		R-17: 6	L = A /3			R.	18: a ₄ • a ₅	/ 20	1		Tam 1* •	K16.0)					Ten	n T = /1	* 1TRO3	(4·4·a)/(กก		- 1
				٠	۵.		• GW _{ee} (mg/L							- ()					/amil /	***	2 2 2			_		a 7.		****			- 1			***		7
_						<u>, w</u>	- ON A CHOICE	7 ~ 100	A (Ciry	V.1	, , , , (3 26	- L	a juni			- 46	<u> </u>	(cm) r	.v	- L 02 (CIII	' ^		-	- 4		,,,,	• \$4294.1		<u> </u>	<u> </u>	<u></u> -	<u> </u>	<u>" </u>		-161112
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58-26A	0.389	/_0,73	••	0.530	0.530	/ 20 000	0.02648	1 43	1310 84	0.1	<u> 1310/</u>	<u>14 • 131,</u>	084	131,064			• 43.6	8 131	1.084 /		• 6.5533	13108	<u> </u>		131 064	<u> </u>	<u> </u>	SORT	1_		4	0 000099	z 131.00	4]/_069	120 •	0.7977
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MC-1 9144 (4
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\$5.78.4 0144 /(4 s 509T (40 688 s 1310 64 s); 0.85533 3048 /(2 s 509T (95527 s 1310 64 s); 1,84443 0.827316 0.97959 0.07548 s 0 3,7457 s 0.822318 s 0.97959 0 0.07548 s 0 0.07758
S8-78C 0,00778





S & S. Infinite Group, Inc. - DBA Downtown 66 2016-1089
Main for R-32 Calculations
TOTAL XYLERES MATH FOR VERTICAL SOR, MODELING AND R-25 MODELING OF VERTICAL MODELED SOR (ARIschment A)

Sample	£ . (#	oli contam	enazion et n pustion S-1	rodeling point)		GW _m • C.	ne .		version: 30 48 cm		R-16: Q =		Т		R-17: a, 4				R-18: 0, =	- 120	T		(em 1° = (χ/Q.σ	3)	\top			7	n Z = {1·	COOT		-11000			\neg
Location		/ (Eq	LESS OF S-1			ينا فيولان	UP	1100(*	30 48 cm	-	H-16: Q	J.10 ' A	_		K-17: 0	4/3			K-18: Q	9,120	_					_			160	7 11.	PHKI	. 4. 7	07(0)0			
					۰.	/ DF	- CW _m (mg/	U X (D)	X (cm)	0,1	я Х (сл)(cr	m)	a, (em)	, :	, ,	a (cm)	G_(CIT)	/	• a_(cr) X		2 +	۰ ۵.	• Tem	<u> 1 1 - </u>	SORT	1	٠.	4 .	<u>`</u>		(ه	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	Term Z
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WC1	618	. /	5.469	• 149,196	149.198	/ 20.000	• 7,4597B																										-			
WC-3	258		5 469	- 47,173	47,172	/ 20 000	o 2,35861																			\neg										
SB-764	643		5 469	• 1.176	1.178	/· 20 000	 0,05878 			_			\neg													\neg										
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R-18: q, e q, / 20	41.87 (70 - 2.1330									ERE(B) ERE(B)	Tobbo C.m. 10	0000001 /866660											
R-16: q = 0.10 · X 0.1 s X (cm) Q, (cm) Q, (cm)	2302 - 2362 - 10									4	~	,											
A POTENTIE WAS THE CALL THE LAW AND THE WOLLDES ON WITHOUT MODELED SOLL INTEGRATION AND THE SOLUTION AND THE	0.157 / 70.000 • 0.09105 0.157 / 70.000 • 0.01705									_	S. /(* : 50RT (9, " X))* B, S, /(-									
Sample IC. = (sol contamination at modeling folia)	11 809 / 8044 • 11871 WC-1 244 / 6844 • 0.357				+					Sample B.		11 9144 // 4 s 50											

Illinois Enviromental Protection Agency Leaking Underground Storage Tank Program SSL Input Parameters for Use with Tier 2 Calculations

Site Identification	n,					
IEMA Incident # (6- or 8-digit):	2016-	1089	IEPA LP	C # (10-digit):	1430560114
Site Name: S &	S Infinite Grou	p, Inc DBA Do	owntown 66			
Site Address (not	a P.O. Box):	400 North Eas	t Adams			<u>.</u>
City: Peoria		_ County:	Peoria	•	Zip Code	e: <u>61603</u>
Leaking UST Ted	chnical File				,	
Tier 2 Calculation	nInformation					
Equation(s) Used	l (ex: S12,S17,	S28): <u>S5,6,7,</u>	8,9,10,17,18,	19,20,21,22	24	
Contact Informati	on for Individua	al Who Performe	ed Calculation	s:	;	
CWM Company,	Inc.,				• •	,
Land Use: Res	idential		Soil Ty	oe: Sand	t	

- Mass Limit Acreage other than defaults must always be rounded up.

No

- Failure to use site-specific parameters where allowed could affect payment from the UST Fund

Class II

If Yes, then Specify Acreage:

- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

Class I

Yes X

X

Groundwater:

Mass Limit:

AT (ingestion)	=	Residential = 6	yr
		Çon. Worker = 0.115	yr
AT (inhalation)	=	Residential = 30	yr
		Con. Worker = 0.115	yr
AT _c	=	70	yr
BW	=	Res. (NonCarcinogen) = 15	kg
		Res. (Carcinogen) = 70	kg
		Con. Worker = 70	kg
C _{sat} =		Benzene = 1322.012	mg/kg
		. Toluene = 1168.824	mg/kg
		Ethylbenzene = 749.906	mg/kg
		Total Xylenes = 601.626	mg/kg
		MTBE = 10221.038	mg/kg
		Naphthalene = 212.157	mg/kg
		•	mg/kg
		;	mg/kg
		·	mg/kg
			mg/kg

ďa	=	3.048	m
₫₅	=	3.048	m
DA =	Benzene =	= 0.0001977751261419	009 cm ² /s
	Tolu	ene = 7.67193169192489E	
	Ethylbenz	ene = 3.95299980402237E	-05 cm²/s
	Xyle	nes = 2.61358477517448E	-05 cm ² /s
	MT	BE = 8.82257978856706E	-05 cm ² /s
	Naphthal	ene = 1:22914273421043E	
			cm²/s
			cm²/s
			cm²/s
		· · · · · · · · · · · · · · · · · · ·	cm²/s

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D _i	=	Benzene = 0.088	cm²/s
		Toluene = 0.087	
	, •	Ethylbenzene = 0.075	cm²/s
}	٠	Total Xylenes = 0.0735	
		MTBE = 0.102	_
		Naphthalene = 0.0000075	•
	•		cm²/s
	•		cm²/s
			cm²/s
			cm²/s
D _w	=	Benzene = 0.0000102	2.
- w		Toluene = 0.0000086	•
		Ethylbenzene = 0.0000078	_
		Total Xylenes = 0.00000923	
		MTBE = 0.0000923	cm²/s
			_
		Naphthalene = 0.0000075	cm ² /s
			cm ⁻ /s
			cm ⁻ /s cm ² /s
		****	cm ⁻ /s cm ² /s
DF	=	1.669686986	unitless
ED (ingestion of	=	Con Moëkoë -11	yr '
carcinogens	_	Con. Worker = 1	yr
K _{oc}		Benzêne = 50	
	·	Toluene = 158	
	•	Ethylbenzene = 320	
		Total Xylenës = 398	
		MTBE = 11.5	
		Naphthalene = 500	cm³/g or L/kg cm³/g or L/kg
) *	cm ³ /g or L/kg
		2 O 1	cm ³ /g or L/kg
			cm ³ /g or L/kg
K _s	=	1830	m/yr
Ľ	=	12.192	m
PEF	=		m³/kg
PEF'	=	· · · · · · · · · · · · · · · · · · ·	m³/kg
Q/C (VF equations)	=	Residential = 68.81	(g/m ² -s)/(kg/m ³)
			. (g/m²-s)/(kg/m³)
Q/C (PEF equations)	÷.		(g/m ² -s)/(kg/m ³)
RfC (mg/m ³)		Chronic Sub	chronic
Benzene	=		0.08
Toluene	₹.	(1) 5 (1) \$P\$(1) (1)	5
Ethylbenzene	=	1 - Walter	9
Total Xylenes	=	0.1	0.4
MTBE	Ŧ	3 3 5	2.5
Naphthalene	=	0.003 È €	0.003
	=	. 35 Q " · ·	NA
	=	0	NA
	=		NA
	=	<u> </u>	NA

Incident # 2016-1089

IR _w	=	Residential = 2	L/d
К	= -	31.536	m/yr
K _d (non-ionizing	=	Benzene = 0.68	cm²/g or L/kg
organcis)		Toluene = 2.1488	cm²/g or L/kg
,	Ε	thylbenzene = 4.352	cm²/g or L/kg
	To	tal Xylenes = 5.4128	cm²/g or L/kg
		MTBE = 0.1564	cm²/g or L/kg
		Naphthalene = 6.8	cm²/g or L/kg
			cm²/g or L/kg
			cm²/g or L/kg
			cm²/g or L/kg
			cm²/g or L/kg
K _d (ionizing organics)	=		cm²/g or L/kg
K _d (inorganics)	=	'	cm²/g or L/kg
VF' =	Be	nzene = 477.089	m³/kg
	Tolue	ene = 766.007	m³/kg
		nzene = 1067.141	m ³ /kg
		ilenes = 1312.403	m³/kg
	-	RE = 714.311	m³/kg
N 11			
Napr	ntnaien	e = 6051.797	m³/kg
			m³/kg
			m³/kg
			m³/kg
			m³/kg
VM _{M-L} =		#VALUE!	m³/kg
		#VALUE!	m³/kg
		#VALUE!	m³/kg
		#VALUE!	m ³ /kg
		#VALUE!	m³/kg
,		#VALUE!	m³/kg
	•		m³/kg
			m³/kg
	:		m³/kg
	:		m³/kg
VF' _{M-L} =	*	#VALUE!	m³/kg
) :-	#VALUE!	m ³ /kg
			m ³ /kg
	í	#VALUE!	• •
		#VALUE!	m³/kg
	•	#VALUE!	m³/kg
		#VALUE!	m³/kg
		4	m³/kg
	*		m³/kg
			m³/kg
			m ³ /kg
η	=	0.201	L _{pore} /L _{soil}
θ _a	=	0.109	L _{air} /L _{soil}
O _a	_	<u> </u>	

RfD _o mg/(kg-d)	Chronic Subchronic
Benzene	= 0.004
Toluene	$= 0.08$ $\frac{1}{2}$ 0.8
Ethylbenzene	= 0.1 0.05
Total Xylenes	= 0.2 0.4
MTBE	= .0.01 3.0.1
Naphthalene	= 0.02 0.6
	=
1	= NA
s	= Benzene = 1800 mg/L
	Toluene = 530 mg/L
	Ethylbenzene = 170 mg/L
	Total Xylenes = 110 mg/L
}	MTBE = 51000 mg/L
	Naphthalene = 31 mg/L
	mg/L
	mg/L
,	mg/L
	mg/L
SF _o	= Benzene = 0.055 (mg/kg-d) ⁻¹
ľ	Toluene = NA (mg/kg-d) ⁻¹
•	Ethylbenzene = 0.011 (mg/kg-d) ⁻¹
	Total Xylenes = NA (mg/kg-d) ⁻¹
}	$MTBE = NA (mg/kg-d)^{-1}$
	Naphthalene = NA (mg/kg-d) ⁻¹
	- (mg/kg-d) ⁻¹
	(mg/kg-d) ⁻¹
	(mg/kg-d) ⁻¹
	(mg/kg-d) ⁻¹
T	= Residential = 9.5E08 s
·	Con. Worker = 3.6 x 10 ⁶ S
T _{M-L}	= 30 ½ yr
THQ	= 1 unitless
TR	= 1.00E-06 unitless
U _m	= 4.69 m/s
URF	= Benzene = $7.8 \times 10^{-6} \text{ (µg/m}^3)^{-1}$
Ut	= 11.32, m/s
\	= 0.5 ¼ unitless
VF =	Benzene = 6214.753 m³/kg
•	Toluene = 9978.318 m³/kg
	Ethylbenzene = \$13901.009 m³/kg
	Total Xylenes = 17095.878 m³/kg
	MTBE = 9304.904 m ³ /kg
	Naphthalene = 7,8833.093 m ³ /kg
	m ³ /kg
	m ³ /kg
	m7/kg - 11:00
	m³/kg
L	m³/kg

Incident # 2016-1089

θ,,	=	0.092	Lwater/Lsoit
ρ _b	=	2.15	kg/l or g/cm ³
ρ _s	= ;	2.69	g/cm ³
ρ _w	= ;	1	g/cm ³
1/(2b+3)	= (0.09	unitless

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Illinois Enviromental Protection Agency Leaking Underground Storage Tank Program RBCA Input Parameters for Use with Tier 2 Calculations

EMA Incident # (6- or 8-digit):	2016-1	1089	IEPA LPC	; # (10-digit):	1430560114
Site Name: S&S Infinite Grou	p, Inc DBA Dowr	ntown 66		_	
Site Address (not a P.O. Box):	400 North East A	Adams			<u> </u>
City: Peoria	County:	Peoria		Zip Code:	61603
eaking UST Technical File					•
Tier 2 Calculation Information					
Equation(s) Used (ex: R12,R14,	R26): <u>R16, R17</u>	, R18,R19, R21,	R22, R23, R24	,R26_	
Contact Information for Individua	Who Performed	Calculations:			
Contact Information for Individua	Who Performed	Calculations:			
	Who Performed (Calculations: Soil T	ype: <u>Sand</u>		
CWM Company, Inc.,		<u>.</u>	ype: <u>Sand</u>		·
and Use: Residential		Soil T			
and Use: Residential Groundwater: X Class I		Soil Ty			
CWM Company, Inc., and Use: Residential Groundwater: X Class I Mass Limit: Yes X Objective from S17 used in R26		Soil Tr Class II If Yes, then Spec		ed mg/L.	

AT _c	=	70	yr
AT _n	-	Residential = 30 Con. Worker = 0.115	yr yr
BW	=	70	yr
C _{source}	=	See Attached	mg/L
C(x)	2	See Attached	mg/L

- Inputs must be submitted in the designated unit.

Dep	=	See Attached	cm²/s
Dwater	=	See Attached	cm ² /s
D, eff	=	See Attached	cm²/s
ED	_	Residential = 30	yr
EU		Con. Worker = 1	уr
EF	-	Residential = 350	d/yr.
		Con. Worker = 30	d∧r

erf	=	See Attached	unitless
f _{oc}	=	0.0136	9/9
GW _{comp}	=	See Attached	mg/L
GW _{source}	=	See Attached	mg/L
H'	=	See Attached	cm3 _{water} /cm ³ ar
i	=	0.02	cm/cm
1	3	30_	cm/yr
IR _{air}	=	20	m³/d
IR _{sod}		Residential = 100	mg/d
W Sed	_	Con. Worker = 480	mg/d
IR,,	=	Residential = 2	L∕d
К	-	8.640	cm/d
		3153.600	cm/yr
K₀c	=	See Attached	cm³/g or L/kg
k _e (non-ionizing organics)	=	See Attached	cm³ _{water} /g _{soll}
K _e (ionizing organics)	=	Not Applicable	cm3 _{weter} /g _{eol}
K _s (inorganics)	=	Not Applicable	cm³ _{water} /g _{soil}
Ls	=	100	ст
LF _{sw}	=	See Attached	(mg/L _{max})/(mg/kg _{ma})
M	=	0.5	mg/cm²
Pe	=	6.9 · 10 ^{·14}	g/cm²-s
RAF _d	=	0.5	unitless
α _x	=	See Attached	cm
α _y	=	See Attached	cm
α _z	=	See Attached	cm
λ	=	. See Attached	d ^{-t}
п	=	3.1416	
· T	=	9.46 · 10 ⁸	s
	_		

RAF _d (PNAs)	=	0.05	unitless
RAF _d (inorganics)	=	0	unitless
RAF.	=	1	unitless
RBSL _{air} (carcinoginic)	=	See Attached	µg/m³
RBSL _{eir} (noncardinogínic)	=	See Attached	µg/m³
RfD,	=	See Attached	mg/kg-d
SA	=	3,160	cm²/d
S₀	=	200.0	cm
S _w	=	640.1	cm
SF,	=	See Attached	(mg/kg-d) ⁻¹
SF.	=	See Attached	(mg/kg-d) ⁻¹
THQ	=	1	unitless
TR	=	1.00E-06	unitless
U	=	0.6912	cm/d
U _{air}	=	225	cm/s
Ugw	=	3153.620	cm/y
VF _p	=	3.97133E-12	kg/m³
VF _{eamb}	=	See Attached	(mg/m³ m)/mg/kg _{est} or kg/m
VF ₆₃	=	See Attached	kg/m3
W	=		cm
w	-	0.094	g _{water} /g _{soil}
δ _{eir}	=	200	cm
δ _{gw}	-	200	····cm
θ _{es}	=	0.0479	cm ³ _{ed} /cm ³ _{eol}
θ _{ws}	=	0.2021	cm ³ /cm ³ eat
θτ	=	0.25	cm³/cm³
Ρь	=	2.15	g/cm ³
ρ	=	1	g/cm ³
	_		

	H'	λ	Koc
Benzene	0.23	0.0009	50
Toluene	0.271	0.011	158
Ethylbenzene	0.324	0.003	320
Total Xylenes	0.271	0.0019	398
MTBE	0.0241	0	11.5
Naphthalene	0.0198	0.0027	500
	 		
	+	 	
	 		

		Benzene R26	Modeled G	roundwater f	rom Vertical N	Modeled Soil	s	
	C _{source} from						erf: S _w /(4 ·	erf: S, / (2
Location	S17 (mg/L)	C(x) (mg/L)	X (cm)	ax (cm)	a _y (cm)	a ^s (cw)	√[a,·X])	√[a, X])
backfill 3	0.093	0.005	1950.72	195.072	65.024	9.7536	0.47483982	0.881829
WC-1	2.948	0.005	4541.52	454.152	151,384	22.7076	0.21509171	0.497869
WC-3	0.666	0.005	3322.32	332.232	110.744	16.6116	0.29091523	0.641083
SB-26A	0.026	0.005	1158.24	115.824	38.608	5.7912	0.71545561	0.991501
SB-28C	0.002							
SB-29D	0.004	,						-
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		<u> </u>	Renzene R	26 Modeled (Scoundwater		
Location	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S., / (4 · √[a _y · X})	erf: \$_/(2 · √[a₂ · X])
		· :					
		,					
		•					
		- 1					

Location S17 (mg/L) C(x) (mg/L) X (cm)			Toluene R26	Modeled Gr	oundwater fo	om Vertical N	Aodeled Soil	s	
WC-1 13.8528 0.9515 213.36 21.336 7.112 1.0668 0.99999999 1 . WC-3 3.6502 0.6916 121.92 12.192 4.064 0.6096 1 1	Location		C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a, (cm)		erf: sೄ/(2 · · √[α₂ · X])
WC-1 13.8528 0.9515 213.36 21.336 7.112 1.0668 0.99999999 1 . WC-3 3.6502 0.6916 121.92 12.192 4.064 0.6096 1 1	hackfill 3	0.6711					<u></u>		
WC-3 3.6502 0.6916 121.92 12.192 4.064 0.6096 1 1			0.9515	213.36	21.336	7,112	1.0668	0.99999999	
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Toluene R26 Modeled Groundwater												
Location	C(x) (mg/L)	X (cm)	a _z (cm)	α _γ (cm)	a _z (cm)	erf: S _w / (4 · √[a _y · X])	erf: S., / (2 \([a_z \cdot X])					
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	E	hylbenzene F	26 Modeled	Groundwate	r from Vertic	al Modeled S	oils	
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a, (cm)	erf: S _w / (4 ⋅ √[α _y ⋅ X])	erf; S _w / (2 · √(a ₂ · XI)
	· · · · · · · · · · · · · · · · · ·	<u> </u>	,	-1(/				
WC-1	1.6549	0.6304	243.84	24.384	8.128	1.2192	0.99999963	1
WC-3	0.5191							
						<u> </u>		
	<u> </u>							
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			thylbenzene	R26 Modele	d Groundwate	er	
Location	C(x) (mg/L)	X (cm)	a _x (cm)	α _y (cm)	a, (cm)	√[a,·X])	√[a₂ · X])
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		tal Xylenes R	26 Modeled	Groundwate	r from Vertica	al Modeled S		
	C _{source} from			_			erf: S _w /(4 ·	erf: S_/(2
Location	S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	α _γ (cm)	az (cm)	√[(a _y · X])	√[a₂ · X])
	l							
backfill 3	0.3565							
WC-1	7.4598							
WC-3	2.3586							
SB-26A	0.0588							
	 							
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			Total Xylenes	R26 Modele	d Groundwat	er	
Location	C(x) (mg/L)	X (cm)	a ^x (cw)	a _y (cm)	a _z (cm)	erf: \$_/(4 · \{a, X})	erf: S _w / (2 √(a _z · XI)
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		MTBE R26 I	Modeled Gro	undwater fro	om Vertical M	odeled Soils		
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	enf: S _w / (4 · √[α _v · X])	erf: S _w / (2 ⋅ √[α _s · X])
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			MTBE R2	R26 Modeled Groundwater									
Location	C(x) (mg/L)	X (cm)	a _x (cm)	a _y (cm)	a _z (cm)	erf: S ₊ / (4 · √[a _y · X])	erf; S., / (2 √[α₁ · X])						
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Tier 2 Industrial/Commercial Calculations for Benzene \$ & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

SSL SSL & RBCA

Date Compiled: 02/20/18

Input Values											
	s Bulk Density> 0			calculation sheet ->		USDA Soil Classification:					
	nic Matter (%) -> 0	FOC % (0.58 conversion)	-> 0.000	Organic Matter (mg/kg)	0	FOC mg/kg (0.58 conversion)	0.000	foc conversion	n to g/g:	0.000	J
	ρ _b - Dry Soil Bulk Density				d = 1.8; Silt	= 1.6; Clay = 1.7; or Site Specific					
	ps - Soil Particle Density	•		· 2.65 or, Site Specific			_				
	O Air Filled Soil Porosity		Value from S-21			0.13; Gravel = 0.05; Sand = 0.14;					
	Ow - Water Filled Soil Porosity		Value from S-20			0.30; Gravel = 0.20; Sand = 0.18;		= 0.17; or Calculate	d Value (S20	0)	
	η - SSL: Total Soil Porosity · · · ·	0.201	Value from S-24		ind = 0.32; 5	iit = 0.40; Clay = 0.36; or Calculat	ed Value (S24)				•••
	i - Hydraulic Gradient	 		Site Specific							
	foc - Total Organic Carbon (g/g)			Surface Soil = 0.006; Su							
	DF - Dilution Factor	1.670	Value from S-22		is less than	20, then 20 default is used, else o	alculated value	is used			
	d - Mixing Zone (m)	3.884	Value from S-25	2; or calculated value	461-6	4					
	d, - Depth of source (m)		, feet = 10	Depth of Source (Vertica			 : 2				
	K - Hydraulic Conductivity (m/yr		1.00E-04		64E+00	1 cm/d 3.15E+03 i cm/yr	Use cm/d for R	15, R19, & R26. cr	n/yr for R24		
	L - Source Length Parallel to Gr		feet = 40	Site Specific (m)							
	d Aquifer Thickness (m)		! feet = 10	Site Specific (m)							
	I - Infiltration Rate (m/yr)			0.3 for Illinois							
	K Saturated Hydraulic Conduc			See Table K for Input Va							
	GW _{obj} - Groundwater Remediation	on Objective Class 1				ter Remediation Objective Class 2					
	1/(2b+3) - Exponent for S20			See Table K for Input Va							
	BW - Body Weight				genic); 15 (ion-carcinogenic); Industrial/Comm	nercial = 70; Cor	nstruction Worker =	70; RBCA =	70	
	IF collective Age Adjusted Soil Inges	stion Factor for Carcinogens		114						_	
50	IR _{coll} -Soil Ingestion Rate				rlat/Comme	cial = 50; Construction Worker = 4					
0.055	SF _o -Oral Slope Factor			Benzene = 0.055	•				<u>.</u>		
1	IR., -Daily Water Ingestion Rate			†Residential = 2; Industria	l/Commerci	ol = 1					
1800	S - Solubility In Water			Benzene = 1750			_				
1.0E-06	TR - Target Cancer Risk			Residential = 10 ⁻⁶ ; Indus	rial/Comme	cial = 10 ⁻⁶ ; Construction Worker =	10 ⁻⁶ at point of	human exposure	•		
- 70	AT _c -Average Time for Carcinog	jens	·	170							
7.80E-06	URF - Inhalation Unit Risk Facto	Dr .		Benzene = 7.8 x 10 *							
	EF - Exposure Frequency					cial = 250; Construction Worker =	30				
	ED - Exposure Duration for Inha					ial = 25; Construction Worker = 1		•			
	Q/C - Inverse of the mean conce	entration at the center of a squa	re source			ercial = 85.81; Construction Work					
	T - Exposure Interval				idustrial/Cor	nmercial = 7.9 x 10 ⁸ ; Construction	Worker = 3.6 x	10*			
30	T _{M4.} - Exposure Interval for Mall			30							
	ED _{M4} - Exposure Duration for Migrat			70							
0.18	IMA - Infiltration Rate for Migratic	on to Groundwater Mass-Limit E	quation S28	0.18							
0.088	D _i - Diffusivity in Air			Benzene = 0.088							
	H' - Henry's Law Constant			Benzene = 0.228				-			
	D., - Diffusivity In Water	•		Benzene = 9.8 x 10 ⁻⁶							
50 ·	K _{oc} - Organic Carbon Partition C	Coefficient		Benzene = 58.9							

1	Industrial/Commercia	I Ingestion Tier II Benzene Objective							·	1		-					
	S-3 =	TR x BW x AT _e x 365	. = -	1.0E-06	X	70	.х	.70	x	365			=	1.8E+00	=	104.058	mg/kg
		Sf _o x 10 ⁶ x EF x ED x IRsoil		0.055	x	1.002-06	×	250	×	25	×	50		1.72E-02			

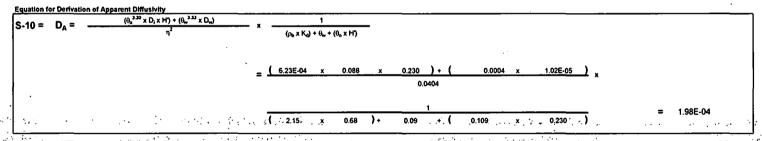
Cons	truction Worker I	Ingestion Tier II Benzene Objective										
S-3	_ : : : : : :		 1.0E-06	x 70	x	.70 .4	x	~ 1365	_ 1.8E+00	_	2258.21	mg/kg
13.3	F with respect	Sf _o x 10 ⁶ x EF x IRsoil	 0.055	X4.00E-06	x	30	×	1 480	7.92E-04	-	2230.21	IIIg/kg

Tier 2 Industrial/Commercial Calculations for Benzene S & S Infinite Group, Inc. - DBA Downtown 66

Construction Worker	Inhalation Tier II Benzene Objective															
S-6 =	TR x ATc x 365	- = -	1.0E-06	×	70	x	365					=	0.02555	=	3.704	mg/kg
	URF x 1000 x EF x ED x 1/VF		7.80E-06	×	1000	×	250	×	25	>	(1/	7.07E+03)	6.90E-03			

ſ	construction Worker Inhalation Tier II Benzene Objective	-								•						
و]	\$-7-= • TR x ATc x 365	1.0E-06	x	70	x	365						0.02555	=	5.209	mg/kg	
ľ	URF x 1000 x EF x ED x 1/VF	7.80E-06	×	1000	x	30	×	1	>	(1/	4.77E+01)	4.90E-03		0.200	·g/g	•

RESIDEN	TIAL OR CO	MMERCIAL													-	
S-8 =	VF =	Q ,	(3.14 x D _A x T) ^{1/2} x 10 ⁻⁴	 85.81	٠,	3.14	×	1.98E-04	x	7.90E+08) ^{1/2} x	0.0001	_ =	6.0104	_	7067,4376
3-5-	•• -	c	(2 × ρ _b × D _A)	 00.01	7	2	x	2.15	×	1.98 E-0 4)			0.0009	_	7007.4070



Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)
$$S-17 = C_w \times \left[K_s + \frac{(\theta_w + \theta_s \times H)}{\rho b} \right] = 0.1 \times \left[0.68 + \frac{(0.092 + 0.109 \times 0.230)}{2.15} \right] = 0.073 \text{ mg/kg}$$

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and a few particular control with a configuration of a few con-

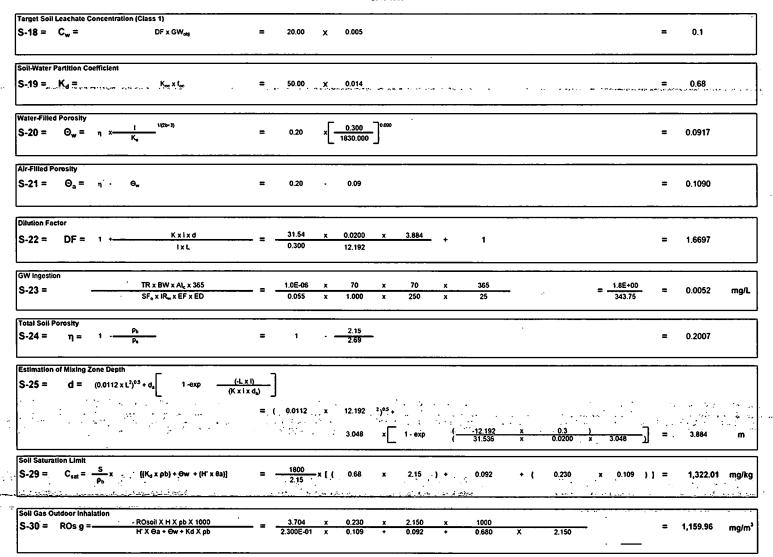
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in after the local parties are assumed by the properties of the end-

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Tier 2 Industrial/Commercial Calculations for Toluene S & S Infinite Group, Inc. - DBA Downtown 66

Date Compiled: 02/20/18 SSL & RBCA IRIS/HEAST Versie 4757010 Input Values Holcomb's Bulk Density -> Converted Value to be used in calculation sheet -> USDA Soil Classification: Sand Organic Matter (%) -> FOC % (0.58 conversion) -> 0.000 Organic Matter (mg/kg) FOC mg/kg (0.58 conversion 1.5 or, Gravel = 2.0; Sand = 1.8; Sitt = 1.6; Clay = 1.7; or Site Specific 2.150 ρ_b - Dry Soil Bulk Density ps - Soil Particle Density (2.65 or, Site Specific 0.109 O. - Air Filled Soil Porosity 0.109 Value from S-21 Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21) 0.092 Value from S-20 Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Sitt =0.16; Clay = 0.17; or Calculated Value (S20) 0.201 n - SSL: Total Soil Porosity 0.201 -- Value from S-24 0.43 or, Gravel - 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (\$24 or R23) II - Hydraulic Gradient Site Specific 0.014 foc - Total Organic Carbon (g/g)
20.000 DF - Dilution Factor Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific 1.670 Value from S-22 If calculated value for DF is less than 20, then 20 default is used, else calculated value is used 3.884 d - Mixing Zone (m) 3.884 Value from S-25 2; or calculated value 3.048 d. Depth of source (m) Depth of Source (Vertical thickness of contamination) 31.54 K - Hydraulic Conductivity (m/yr) cm/sec = 1.00E-04 Site Specific 8.64E+00 1 cm/d 3.15E+03+ cm/yr Use cm/d for R15, R19, & R26, cm/yr for R24 12.192 L - Source Length Parallel to Groundwater Flow (m) feet = 40 Site Specific (m) 3.048 d. - Aquifer Thickness (m) feet = 10 Site Specific (m) I - Infiltration Rate (m/yr) 0.3 for Illinois K. - Saturated Hydraulic Conductivity See Table K for Input Values GWool - Groundwater Remediation Objective Class 1 GW_{att} - Groundwater Remediation Objective Class 2 0.090 1/(2b+3) - Exponent for \$20 See Table K for Input Values BW - Body Weight IF and adjusted Soil Ingestion Factor for Carcinogens IR. -Soil Ingestion Rate Residential = 200; Industrial/Commercial = 50; Construction Worker = 480 IR, -Daily Water Ingestion Rate | Residential = 2; Industrial/Commercial = 1 S - Solubility in Water Toluene = 526 530 1.0E-06 TR - Target Cancer Risk (Residential = 10⁻⁶; Industrial/Commercial = 10⁻⁶; Construction Worker = 10⁻⁶ at point of human exposure EF - Exposure Frequency Residential = 350; Industrial/Commercial = 250; Construction Worker = 30 ED - Exposure Duration for Inhalation for Non-Carcinogens Residential = 30; Industrial/Commercial = 25; Construction Worker = 1 68.81 Q/C - Inverse of the mean concentration at the center of a square source Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H Residential = 9.5 x106; Industrial/Commercial = 7.9 x 106; Construction Worker = 3.6 x 106 7.90E+08 T - Exposure Interval T_{M4} - Exposure Interval for Mall Limit Volatilization Factor Equation S26 30 ED_{MA} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28 70 Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28 0.18 0.087 D_i - Diffusivity In Air Toluene = 0.087 Toluene = 0 272 0.271 H' - Henry's Law Constant 8.60E-06 D. - Diffusivity In Water AT - Average Time for Non-Carcinogens In Ingestion Equation Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115 AT - Average Time for Non-Carcinogens In Inhalation Equation Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115 THQ - Target Hazard Quotient RfC - Inhalation Reference Concentration IChronic = 5; Subchronic = 5 RfD_o - Oral Reference Dose Chronic = 0.08; Subchronic = 0.8 0.8 158.00 K_{oc} - Organic Carbon Partition Coefficient Toluene = 182 Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants THQ x BW x AT x 365 638750 S-1 = 1635200 mg/kg 108 x (1/RfD,) x EF x ED x IR, 0.000001 x 1/ 0.390625 Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants . . 70 0.115 THO x BW x AT x 365 365 163236 mg/kg Construction Worker Inhalation Tier II Benzene Objective THQ x AT x 365 = 9125 0,110158 82835,846 mg/kg EF x ED x (1/RfC x 1/VF) 250 25 11347.37618 Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit Inhalation Non-Carcinogenic Construction Worker THQ x AT x 365 41.975 535.886 mg/kg EF x ED x (1/R/C x 1/VF) 76.60077386 0.078328 RESIDENTIAL OR COMMERCIAL (3.14 x DA x T) 1/2 x 10-4 7.90E+08

7.67E-05

(2 x Pb x DA)

11347,3762

3.30E-04



Construction Worker $S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^4}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 7.67E-05 \times 3.60E+06)^{1/2} \times 0.0001}{(2 \times 2.15 \times 7.67E-05)} = \frac{0.2527}{3.30E-04} = 766.0077$

Equation for Derivation of Apparent Diffusivity
$$S-10 = D_A = \frac{(\theta_a^{3.33} \times D_1 \times H) + (\theta_a^{3.33} \times D_m)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_m + (\theta_a \times H)}$$

$$= \frac{(6.23E-04 \times 0.087 \times 0.271) + (0.0004 \times 0.0004)}{0.0404} \times \frac{0.0004 \times 0.0004}{0.0404} \times \frac{0.0004 \times 0.0004}{0.0404} \times \frac{0.0004}{0.0404} tml:image>data:image/s3,anthropic-data-us-east-2/u/marker_images/sfishman-markermapper-1007170915/6eb177ad269ad4417e9177f25191bf4d.jpeg</antml:image>

Target Soil Leachate Concentration (Class	ss 1)						
S-18 = C _w =	DF x GW _{obj}	=	20.00	×	1.000	=	20

Water-Filled Porosity
$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} \qquad = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} = 0.0917$$

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Tier 2 Industrial/Commercial Calculations for Toluene S & S Infinite Group, Inc. - DBA Downtown 66 206-1089

Air-Filled Porosity
$$S-21 = \Theta_0 = \eta - \Theta_w = 0.20 - 0.09 = 0.1090$$

Total Sell Peresity
$$S-24 = \eta = 1 - \frac{\rho_b}{\rho_a} = 1 - \frac{2.15}{2.69} = 0.2007$$

Estimation of Mixing Zone Depth
$$S-25 = d = (0.0112 \times L^{2})^{0.5} + d_{\bullet} \begin{bmatrix} 1 - \exp \left(\frac{(-L \times I)}{(K \times i \times d_{\bullet})} \right) \\ (K \times i \times d_{\bullet}) \end{bmatrix} = (0.0112 \times 12.192 \quad ^{2})^{0.5} + \\ 3.048 \times \begin{bmatrix} 1 - \exp \left(\frac{-12.192}{31.536} \times 0.0200 \times 3.048 \right) \end{bmatrix} = 3.884 \quad m$$

Soil Satura	tion Limit														$\overline{}$
S-29 =	$C_{sat} = \frac{S}{\rho_b} x$	$[(K_d \times \rho b) + \Theta w + (H' \times \theta a)]$	=	530 2.15 x [(2.1488	×	2.15) +	0.092	+ (0.271	×	0.109)] =	1,168.82	mg/kg
1															

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Tier 2 Industrial/Commercial Calculations for Ethylbenzene S & S Infinite Group, Inc. - DBA Downtown 66

Date Compiled: 02/20/18 SSL & RBCA Version 4050000 Input Values Holcomb's Bulk Density -> Converted Value to be used in calculation sheet -> USDA Soil Classification: Sand FOC % (0.58 conversion) -> 0.000 Organic Matter (mg/kg) Organic Matter (%) --> FOC mg/kg (0.58 conversion) 1.5 or, Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific 2.150 p_b - Dry Soil Bulk Density 2.65 or, Site Specific os - Soil Particle Density 0.109 O. - Air Filled Soil Porosity 0.109 Value from S-21 Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Sift =0.24; Clay = 0.19; or Calculated Value (S21) 0.092 Ow - Water Filled Soil Porosity 0.092 Value from S-20 Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20) 0.201 'n'- SSL: Total Soll Porosity 0.201 Value from S-24 0.43 or, Gravel - 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24) 0.02 I - Hydraulic Gradient Site Specific Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific 0.014 foc - Total Organic Carbon (g/g) 20.000 DF - Dilution Factor 1.670 Value from S-22 If calculated value for DF is less than 20, then 20 default is used, else calculated value is used 3.884 d - Mixing Zone (m) 3.884 Value from S-25 2; or calculated value 3.048 d. Depth of source (m) | feet = 10 Depth of Source (Vertical thickness of contamination) 31.54 K - Hydraulic Conductivity (m/yr) cm/sec = 1.00E-04 Site Specific 8.64E+00 x cm/d 3.15E+03 cm/yr Use cm/d for R15, R19, & R26. cm/yr for R24 12.192 L - Source Length Parallel to Groundwater Flow (m) : feet = 40 Site Specific (m) ! feet = 10 3.048 d. Aquifer Thickness (m) Site Specific (m) I - Infiltration Rate (m/yr) 0.3 for Illinois K. - Saturated Hydraulic Conductivity See Table K for Input Values GWood - Groundwater Remediation Objective Class 1 GWobi - Groundwater Remediation Objective Class 2 0.090 1/(2b+3) - Exponent for S20 See Table K for Input Values BW - Body Weight Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70 IF collecti - Age Adjusted Soil Ingestion Factor for Carcinogens IR_{eol} -Soil Ingestion Rate Residential = 200; Industrial/Commercial = 50; Construction Worker = 480 IR. -Daily Water Ingestion Rate I Residential = 2; Industrial/Commercial = 1 S - Solubility in Water Ethylbenzene = 169 170 Residential = 10⁶; Industrial/Commercial = 10⁶; Construction Worker = 10⁴ at point of human exposure 1.0E-06 TR - Target Cancer Risk EF - Exposure Frequency Residential = 350; Industrial/Commercial = 250; Construction Worker = 30 25 ED - Exposure Duration for Inhalation for Non-Carcinogens
68.81 Q/C - Inverse of the mean concentration at the center of a square source Residential = 30; Industrial/Commercial = 25; Construction Worker = 1 Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H Residential = 9.5 x10⁸; Industrial/Commercial = 7.9 x 10⁸; Construction Worker = 3.6 x 10⁶ 7.90E+08 T - Exposure Interval Taxa - Exposure Interval for Mall Limit Volatilization Factor Equation S26 70 EDM4 - Exposure Duration for Migration to Groundwater Mass-Limit Equation \$28 IML - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28 0.18 Ethylbenzene = 0.075 0.324 H' - Henry's Law Constant Ethylbenzene = 0.323 7.60E-06 D_w - Diffusivity in Water Ethylbenzene = 7.8 x 10 AT - Average Time for Non-Carcinogens In Ingestion Equation Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115 AT - Average Time for Non-Carcinogens In Inhalation Equation Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115 THQ - Target Hazard Quotient RfC - Inhalation Reference Concentration IChronic = 1; Subchronic = 9 0.1 RfD_o - Oral Reference Dose Chronic = 0.1; Subchronic = 0.05. 320.00 K_{oc} - Organic Carbon Partition Coefficient Ethylbenzene = 363 [Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants THQ x BW x AT x 365 638750 365 |S-1 = 204400 mg/kg 10⁸ x (1/RfD₄) x EF x ED x IR₄₆ Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

THQ x BW x AT x 365

1 x 70 x 0.115 x 365 2938.25 10202 المراجع المراج Construction Worker Inhalation Tier II Benzene Objective THQ x AT x 365 S-4 = 23080 mg/kg EF x ED x (1/RfC x 1/VF) 250 25 x 1/ 15808.27272 0.395363 Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit Inhalation Non-Carcinogenic Construction Worker THQ x AT x 365 41 975 1343.798 EF x ED x (1/RfC x 1/VF) 106,7141782 0.031236 Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit RESIDENTIAL OR COMMERCIAL

3.95E-05

1

) 1/2 x

7,90E+08

3.95E-05

(3.14 x D_A x T)^{1/2} x 10⁻⁴

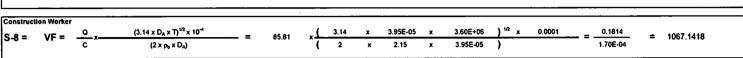
(2 x Pb x D4)

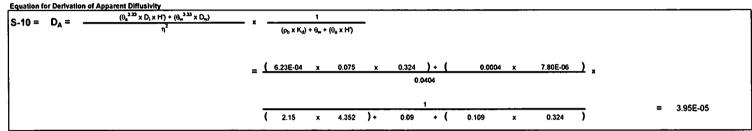
15808.2727

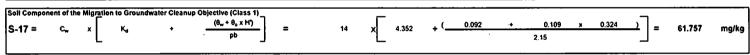
1.70E-04

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Tier 2 Industrial/Commercial Calculations for Ethylbenzene S & S Infinite Group, Inc. - DBA Downtown 66







Target Soll Leachate Concent	tration (Class 1)						-	· · · · · ·
S-18 = C _w =	DF x GW _{obj}	=	20.00	x	0.700	•	=	14
1								

Soil-Water Partition Coefficient			
S-19 = K _d =	K _∞ x f _∞	κ 0.014	= 4.352
·			· · · · · · · · · · · · · · · · · · ·

Water-Filled Porosity
$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} \qquad = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} = 0.0917$$

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Tier 2 Industrial/Commercial Calculations for Ethylbenzene \$ & S Infinite Group, Inc. - DBA Downtown 66 2015-1089

Air-Filled Porosity $S-21 = \Theta_a = \eta - \Theta_w = 0.20 - 0.09 = 0.1090$

Dilution Factor

S-22 = DF = 1 + Kxixd = 31.54 x 0.0200 x 3.884 + 1 = 1.6697

GW Ingestion
S-23 = TR x BW x At_e x 365
SF_o x IR_w x EF x ED = 1.0E-06 x 70 x 0 x 365
SF_o x IR_w x EF x ED = 1.0E-06 x 70 x 0 x 365
0.000 x 1.000 x 250 x 25 = 0.0E+00
0 = #DIV/0! mg/L

Total Soli Porosity $S-24 = \eta = 1 \cdot \frac{\rho_0}{\rho_0} = 1 \cdot \frac{2.15}{2.69} = 0.2007$

Estimation of Mixing Zone Depth $S-25 = d = (0.0112 \times L^{2})^{0.5} + d_{a} \left[1 - \exp \left(\frac{(-L \times I)}{(K \times I \times d_{a})} \right) \right]$ $= (0.0112 \times 12.192^{-2})^{0.5} +$ $3.048 \times \left[1 - \exp \left(\frac{-12.192}{31.536} \times \frac{0.3}{0.0200} \times \frac{3.048}{3.048} \right) \right] = 3.884 \text{ m}$

Soil Saturation Limit $S-29 = C_{aat} = \frac{S}{\rho_b} \times \left\{ \left[(K_d \times \rho b) + 9w + (H' \times \theta a) \right] \right\} = \frac{170}{2.15} \times \left[\left\{ 4.352 \times 2.15 \right\} + 0.092 + \left\{ 0.324 \times 0.109 \right\} \right] = 749.91 \text{ mg/kg}$

Soil Gas Outdoor Inhalation
S-30 = ROs g = ROs g = ROs g + ROs

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Tier 2 Industrial/Commercial Calculations for Total Xylenes S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

	RBCA	IRIS/HEAST							ienic.	on 4055016	5	
Input Values	s 's Bulk Density> 0	Converted	Value to be used in	calculation sheet	I	1 1	ISDA Soil Classification:	Sand	————			
	anic Matter (%) -> 0	FOC % (0.58 conversion		Organic Matter (OC mg/kg (0.58 conversion)	0.000	foc conversion t	o olo:	0.000	_
	Ph - Dry Soil Bulk Density	1 00 % (0.30 conversion	19				av = 1.7; or Site Specific	0.000	TOC CONVENSION	<u>0 99.</u>	0.000	ل
	ps - Soil Particle Density			(2.65 or, Site Spe		Sii - 1.0, Ci	ay - 1.7, or Site Specific					
	O. Air Filled Soil Porosity	0.109	Value from S-21			er = 0.13: Gr	avel = 0.05; Sand = 0.14	Sit =0 24: Clay =	0.19: or Colculated Va	lue (\$21)		
	Ow - Water Filled Soil Porosity		Value from S-20				avel = 0.20; Sand = 0.18					
	n - SSL: Total Soil Porosity						0; Clay = 0.36; or Calcula		U. 17, UI Calculated Val	106 (320)		
	i - Hydraulic Gradient	0.201	Value Holli 3-24	Site Specific	· 0.23, 3anu - 0.	32, 3III - 0.4I	J, Clay - 0.36, 01 Calcula	ileu Value (324)				
	foc - Total Organic Carbon (g/o	0)			006: Subsurface	Soil = 0.002	: or Site Specific					
	DF - Dilution Factor	1.670	Value from S-22				20 default is used, else	calculated value is	s used			
	d - Mixing Zone (m)	3.884	Value from S-25	2; or calculated								
	d Depth of source (m)		feet = 10		(Vertical thickne	ss of contam	nination)					
	K - Hydraulic Conductivity (m/)	vn cm/sec =	1.00E-04	Site Specific	8.64E+00			Use cm/d for R15	, R19, & R26, cm/yr fo	r R24		
	L - Source Length Parallel to C		feet = 40	Site Specific (m)			0.102.00% 0.103	030 0110 101 1110				
	d Aquifer Thickness (m)	Tradition to the first	feet = 10	Site Specific (m)								
	I - Infiltration Rate (m/yr)			0.3 for Illinois	,							
	K Saturated Hydraulic Cond	methythy		See Table K for	Innut Values							
	GW _{au} - Groundwater Remedia	•		10		unter Deme	diation Oblanthia Class 1					
		Alon Objective Class 1				water Reme	diation Objective Class 2					
	1/(2b+3) - Exponent for S20			See Table K for		1£ (aaa aam)		ial 70: Caas	ataustias Maduses 70.	0004 - 7		
70 114	BW - Body Weight	action Easter for Comingence		114	(carcinogenic);	15 (non-carc	nogenic); Industrial/Com	mercial = 70; Cons	struction worker = 70; I	KBCA = /L	<u> </u>	
	IF -Age Adjusted Soil Ing	astion Factor for Carcinogens										
	IR _{soll} -Soil Ingestion Rate						; Construction Worker =	480				
1	IR., -Daily Water Ingestion Rat	le		Residential = 2;		ercial = 1						
	S - Solubility in Water			Total Xylenes =								
	TR - Target Cancer Risk						⁶ ; Construction Worker		uman exposure			
	EF - Exposure Frequency						0; Construction Worker		<u> </u>			
	ED - Exposure Duration for Int						Construction Worker = 1					
		centration at the center of a squ	are source				85.81; Construction Wor					
	T - Exposure Interval				5 x10°; Industrial	Commercial	= 7.9 x 10°; Construction	1 Worker = 3.6 x 10	<u>0°</u>			
30		all Limit Volatilization Factor Equ		30								
		ration to Groundwater Mass-Limit Eq		70					<u> </u>			
0.18	اسر - Infiltration Rate for Migrat	tion to Groundwater Mass-Limit I	Equation S28	0.18								
0.074	D _i · Diffusivity in Air			Total Xylenes =	0.072							
0.271	H' - Henry's Law Constant			Total Xylenes =	0.25							
9.23E-06	D Diffusivity in Water			Total Xylenes =	9.34 x 10 ⁻⁶							
25	AT - Average Time for Non-Ca	arcinogens In Ingestion Equation)	Residential = 6;	Industrial/Comm	ercial = 25; (Construction Worker = 0.	115				
		arcinogens In Inhalation Equation					Construction Worker = (
1	THQ - Target Hazard Quotlent	1		_ 1								
0.1	RfC - Inhalation Reference Co	ncentration		[Chronic = 0.1; S	Subchronic = 0.4							
0.2	RfD _o - Oral Reference Dose			[Chronic = 0.2; S	Subchronic = 0.4							
398.00	K _{ec} - Organic Carbon Partition	Coefficient		Total Xylenes =	260							
	1			, , , , , , , , , , , , , , , , , , , ,		-	'					
ndustrial/C	ommercial Ingestion Remedia	ation Objectives for Non-Carcle	nogenic Contamina	ants				-				
S-1 =		2 x BW x AT x 365	- = - 1	x 70	x 25	x	365		= 638750	=	408800	mg/
	וו) א־טו	KUDD X EL X ED X IK ^{RON}	- = -0.000001	X 17 U.2	x 250	X	25 X	50	1.5525	_	-50000	y
							· · · · · · · · · · · · · · · · · · ·					
Construction	on Worker Ingestion Remediat	tion Objectives for Non-Carcin	ogenic Contaminar	nts								
S_1·= · ·	THO	tion Objectives for Non-Carcin 2 x BW x AT x 365 RIU _O J X EF X EU X IR _{sol}	1	x 70	x 0.11	j. χ.,	365			=	81618	mg/
<i>y</i> -1 –			=: 0.000001	X 1/ U.4	X 30	X	1 X	480	- 0.036	_	31010	mg
******	<u></u>	<u> </u>					<u> 9 </u>		`			
onetorett.	on Worker Inhalation Tier II Be	nana Ohlostiva										
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	on trouder minaration (16) il De	wrene Anleéniée										

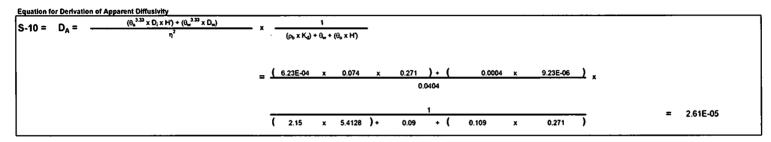
S-4 = THQ x AT x 365 = 1 x 25 x 365 = 9125 = EF x ED x (1/RIC x 1/VF) = 250 x 25 x 1/ 0.1 x 1/ 19441.48884 = 3.214774369	struction Worker Inhalation Tier II	Benzene Objective							:				
Tier 2 Inhalation Objective cannot exceed Soil Sa	1 = EF		=	1 250	×	25 25	x x 1/	x 1/		halation Objective	3.214774369	= 2838.45 oil Saturation Li	

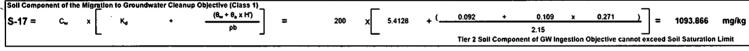
Inhalation Non-Car	rcinogenic Construction Worker											
S-5 =	THQ x AT x 365	1	x	0.115	X.	365			 41.975	_	73.451	mg/kg
3-3 -	EF x ED x (1/R/C x 1/VF)	30	x	1	x 1/	0.4	x 1/	131.2403032	 0.571470792	-	13.451	mg/xg
							_					

RESIDEN	TIAL OR CO	MMERCIAL							-		-						
S-8 =	VF =	Q x	(3.14 x D _A x T) ^{1/2} x 10 ⁻⁴	_ =	85.81	,(3,14	×	2.61E-05	×	7.90E+08) ^{1/2} x	0.0001	_ =	2.1849	=	19441,4888
	••	C	(2 x po x Da)		00.01	<u> </u>	2	×	2.15	×	2.61E-05)			1.12E-04	_	104411.4000
			<u></u>								<u> </u>						

TO BE GATTER OF A CONTRACTOR







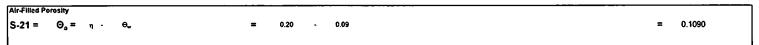
Target Soil Leachate Concentrati	on (Class 1)						-		
S-18 = C _w =	DF x GW _{obj}	= 20.0	×	10.000		•	=	200	
					•				

ſ	Soil-Water	Partition Coefficient							
	S-19 =	K _d =	K _{oc} x f _{oc}	= 398.00	×	0.014	•	•	5.4128
.					-				

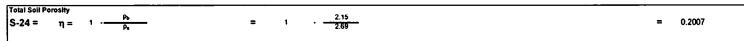
Water-Filled Porosity
$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} = 0.20 \times \left[\frac{0.300}{1830.000}\right]^{0.000} = 0.0917$$

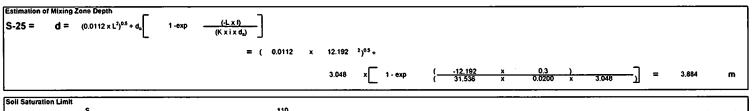
and the second of the commence of the





GW Ingestion S-23 = -	TR x BW x At _o x 365 SF _o x IR _w x EF x ED	. =	1.0E-06 0.000	x	70 1.000	x x	0 250	x x	365 25	=	=	#DIV/01	mg/L





S-29 =	$C_{sat} = \frac{G}{\rho_b} x$	$[(K_0 \times \rho b) + \Theta w + (H' \times \theta a)] =$	2.15 x [(5.4128	×	2.15) +	0.092	+ (0.271	×	0.109)] =	601.63	mg/kg
L														

Soil Gas O	utdoor inhalation											•			
S-30 =	ROs q =	ROsoil X H X pb X 1000	73.451	х	0.271	×	2.150	x	1000				=	3,639.42	3
3-30 -	NOS y -	H' X Oa + Ow + Kd X pb	2.710E-0	1 x	0.109	+	0.092	+	5.413	Х	2.150		_	0,000.42	mg/m²
		•													

was recommended to the control of th

and the contribution of th

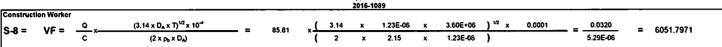


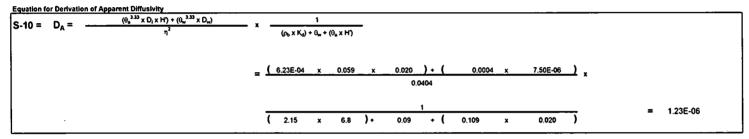
Tier 2 Industrial/Commercial Calculations for Naphthalene

						merciai (te Group, înc		ons for Naphtha vintown 66	aiene					
						2016-								
		SSL RBCA	IRIS/HEAST								Date Comp	illed: √y- √0%0	02/20/18	
Input Values	3	- NOON	internation								****	47. 4. 20	2 7	
	s Bulk Density ->			Value to be used in				USDA Soil Cla						
	nic Matter (%) ->		FOC % (0.58 conversion	0.000				FOC mg/kg (0.58		0.000	foc conversion to	g/g:	0.000	
	ρ _b - Dry Soil Bull						nd = 1.8; Sil	t = 1.6; Clay = 1.7; or S	Site Specific					
	ρs - Soil Particle Θ _a - Alr Filled So		. 0.109	Value from S-21		ite Specific	mu 1 mater	= 0.13; Gravel = 0.05;	Sand = 0 1/1:	Sit =0.24: Clay = 0	10: or Calculater	I Value (221)	
	Ow · Water Filled		0.092	Value from S-20				= 0.30; Gravel = 0.20;						
	η - SSL: Total So			Value from S-24				Sift = 0.40; Clay = 0.3						
0.02	i - Hydraulic Grad	dient			Site Speci	ific								
	foc - Total Organ)					oil = 0.002; or Site Spe						
	DF - Dilution Fac d - Mixing Zone (ed value for C ulated value	OF is less tha	an 20, then 20 default i	s used, else o	calculated value is	used			
	d Depth of sou			feet = 10			al thickness	of contamination)						
	K - Hydraulic Co		n cm/sec =		Site Speci		.64E+00		03 i cmAr IU	se cm/d for R15, F	19 & R26 cm/r	for R24		
			roundwater Flow (m)	• feet = 40	Site Speci									
3.048	d Aquifer Thick	kness (m)		feet = 10	Site Speci	ific (m)								
	I - Infiltration Rat			•	0.3 for Illin									
1830	K Saturated H					K for Input \								
0.140			ion Objective Class 1		0.2			iter Remediation Object	ctive Class 2					
0.090	1/(2b+3) - Expon					K for Input \			4 .47-1/6	74.		70. 550		
· 70	BW - Body Weig		stion Factor for Carcinogens		114	ai = /U (carcii	logenic); 15	(non-carcinogenic); Inc	dustnavComn	nercial = /U; Consi	ruction worker =	/U; RBC/	4 = 70	
50	IR -Soil Ingest		Suon Factor for Carcinogens		· · · · · · · · · · · · · · · · · · ·	a) = 200: Indu	etdal/Comm	erclal = 50; Construction	on Modern a					
1	IR. Daily Water					al = 2; Industi			OII WOIKEI					
31	S - Solubility in V		<u>, </u>		Naphthale		iar Collinier	1 401 - 1					*	
	TR - Target Can						strial/Comm	ercial = 10 ⁻⁶ ; Construct	tion Worker =	10 ⁻⁶ at point of hu	man exposure			
250	EF - Exposure F				Residentia	al = 350; Indu	strial/Comm	ercial = 250; Construct	lion Worker =	30	mon exposure			
25			alation for Non-Carcinogens		Residentia	al = 30; Indus	trlal/Comme	rcial = 25; Construction	n Worker = 1					
68.81			centration at the center of a squ	are source				mercial = 85.81; Const						
	T - Exposure Inte		t t Imit) /olatillanting Footer Co	elles CCC		al = 9.5 x10°;	Industrial/Co	ommercial = 7.9 x 10 ⁸ ;	Construction	Worker = 3.6 x 10	<u> </u>			
70			I Limit Volatilization Factor Equation to Groundwater Mass-Limit Eq		70									
0.18			on to Groundwater Mass-Limit		0.18									
0.059	D _i - Diffusivity in		on to Groundwater wass-com	Equation 525		ne = 0.059								
0.0198	H' - Henry's Law					ne = 0.0198							-	
	D Diffusivity in					ne = 7.5 x 10	- P							
25			rcinogens In Ingestion Equation					clal = 25; Construction	Worker = 0.1	15				
25	AT - Average Tir	me for Non-Cai	rcinogens In Inhalation Equation		Residentia	al = 30; Indus	trial/Comme	rcial = 25; Construction	n Worker = 0.	115				
1	THQ - Target Ha				1									
0.003	RfC - Inhalation RfD _e - Oral Refe					0.003; Subchi 0.02; Subchi		3			 			
500.00	K _{oc} - Organic Ca				•	ene = 2,000	Offic = 0.6.						<u></u>	<u> </u>
300,00	N _{oc} + Organic Ca	iron Painton	Coemicient	 	марпілаїє	ne = 2,000		1.						
Industrial/C	ommercial Inges	stion Remedia	tion Objectives for Non-Carcl	nogenic Contamina	nts									
S-1 =			x BW x AT x 365	<u> </u>		70 x	25	x 365			638750	_	40880	mg/kg
0		10 ⁻⁶ x (1/F	RID。) x Ef x ED x IR	0.000001	x 1/ (0.02 x	250	x 25	×	50	15.625	_	40000	····g/kg
												_		
			on Objectives for Non-Carcin					-						
S.1 =		THQ	x BW x AT x 365		.x,.	70 x	0.115	x 365	3.7	·· ·	2938.25	· = '	122427	mg/kg
1 2 100 mg	9.6 . Sec. 2.	, 10° x (1/F	x BW x AT x 365 R(D _e) x EF x ED x IR _{tol}	0.000001	XALC.	x _{دریان} 0.6	30 ***	ليانية الشهار المحاسط		480	0.024	٠. ٠٠٠٠	المناون والما	مؤنسه
			·											
Construction	n Worker Inhala							·· · · · · · · · · · · · · · · · · · ·						
S-4 = .		Т	HQ x AT x 365	_ =1		25 x	365				9125	=	392.664	mg/kg
		, EF x E	D x (1/RfC x 1/VF)	250	_x	25 x 1/	0.003	x 1/ 89649.249	24		23.23871		******	g , ng
Inhalatics 5	ion-Carcinogeni	c Construction	n Worker											
4	oaremogeni		HQ x AT x 365	_ 1	х 0	.115 x	365				_ 41.975	_		
S-5 =			D x (1/RfC x 1/VF)	30	×	1 x 1/	0.003	x 1/ 605.179713	9		16.52402	=	2.540	mg/kg
			·											
RESIDENT	AL OR COMMER	RCIAL												

(2 x p₀ x D_A)

Tier 2 Industrial/Commercial Calculations for Naphthalene S & S Infinite Group, Inc. - DBA Downtown 66







Target Soil Leachate Concentration (Class 1)										
S-18 = C _w =	DF x GW _{obj}	=	20.00	X	0.140	=	•	2.8	.	
		•								

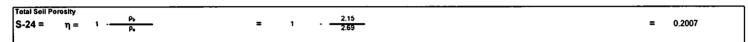
Soll-Water Partition Coefficient							
S-19 = K _d =	K _{oo} x f _{oo}	=	500.00	×	0.014	=	6.8

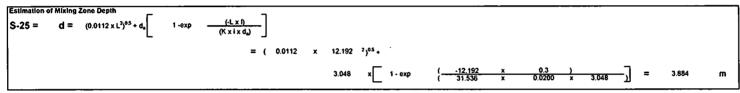
The contribution with the second distribution of the common statistical and the contribution of the contri

Committee to the committee of the committee of the particle of the committee to the facility of the committee of



Air-Filled Porosity						
$S-21 = \Theta_a = \eta \cdot \Theta_w$	=	0.20	•	0.09	=	0.1090





Soil Saturat	tion Limit														
S-29 =	$C_{sat} = \frac{S}{\rho_b} x$	$[(K_d \times \rho b) + \Theta w + (H' \times \theta a)]$	$= \frac{31}{2.15} \times [($	6.8	×	2.15) +	0.092	+ (0.020	×	0.109)] =	212.16	mg/kg

Soli Gas (Outdoor Inhalation														
S-30 =	ROs q =	ROsoil X H X pb X 1000	=	2.540	x	0.020	x	2.150	x	1000			=	7.35	mg/m³
3-30 -	103 y -	H' X Oa + Ow + Kd X pb	_	1.980E-02	X	0.109	+	0.092	+	6.800	Х	2.150		7.00	mym

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SSL SSL & RBCA
RBCA IRIS/HEAST

THQ x AT x 365

THQ x AT x 365

EF x ED x (1/RfC x 1/VF)

Date Compiled: 02/20/18

= 46347.267 mg/kg

249.860

mg/kg

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

41.975 0.167994

		RBCA	IRIS/HEAST												Ven	em etim	713	
Input Value											20.4.2.11.21	-:cn Io						
	b's Bulk Density ->			d Value to be us							SDA Soil Clas							
	anic Matter (%) ->		FOC % (0.58 conversion	n)> Q.	000		ic Matter (n				C mg/kg (0.58 c		0.000		oc conversion t	o g/g:	0.000	
	Pb · Dry Soil Bull								1 = 1.8; Sift	= 1.6; Cla	y = 1.7; or Site	Specific						
2.69	ps - Soil Particle						Site Spec											
0.109	O. Air Filled So	il Porosity	0.109	Value from S	-21										or Calculated \			
0.092	Ow - Water Filled	d Soil Porosity	0.092	Value from S	-20	Top 1 n	neter = 0.1	15; belov	v 1 meter =	0.30; Gra	vel = 0.20; Sa	nd = 0.18; Si	it =0.16; Cla	y = 0.17;	or Calculated \	/alue (S2I	0)	_
0.201	η - SSL & Θτ - RE	CA: Total Soil	Porosity	·· Value from S	-24	0.43 or.	Gravel - (0.25; Sa	nd = 0.32; \$	Sin = 0.40	; Clay = 0.36; (or Calculated	Value (S24)			• • •	
0.02	i - Hydraulic Grad	dient				Site Sp	ecific											
0.014	foc - Total Organ	ic Carbon (g/g)			Surface	Soil = 0.0	006; Sub	surface So	il = 0.002	or Site Specif	ìc						
20.000	DF - Dilution Fac	tor	1.670	Value from S	-22	If calcu	lated valu	e for DF	is less than	n 20, then	20 default is u	sed, else ca	iculated valu	e is used	1			
3.884	d - Mixing Zone ((m)	3.884	Value from S	-25	2; or ca	lculated v	alue										
3.048	d Depth of sou	irce (m)		I feet = 10		Depth o	f Source	(Vertical	thickness o	of contam	ination)							
31.54	K - Hydraulic Cor	nductivity (m/v	n cm/sec =	1,00E-04		. Site Sp	ecific	8.6	4E+00	cm/d	3,15E+0	3 i cm/vr lU	se cm/d for i	R15, R19	, & R26. cm/yr	for R24		
12,192			roundwater Flow (m)	1 feet = 40		Site So	ecific (m)											
3,048	d Aquifer Thick			, feet = 10			ecific (m)											
0.3	I - Infiltration Rat		-			0.3 for							-					
1830	K Saturated H		ctivity				ble K for t	nnıri Vel	lies									
0.070			ion Objective Class 1							or Domas	liation Objectiv	o Clare 3						
	1/(2b+3) - Expon		on Objective Class 1				ble K for I			e Rentec	nation Objectiv	C C1455 Z			-			
70	BW - Body Welg													tt	on Worker = 70	. DDCA -	70	
			ation Francisco Construcción				MIBI = 70	carcino	genic); 15 (non-carcii	logenic), indus	unavcomme	ercial = 70, C	onsuucu	on worker = 10	, KBCA =	70	
114			stion Factor for Carcinogens			114												_
50	IR _{coll} -Soil Ingest					Reside	ntial = 200); Industi	rlal/Comme	rcial = 50	Construction	Worker = 48	0					
1	IR., -Daily Water	Ingestion Rate)			/ Reside	ntial = 2; f	ndustrial	VCommerci	ial = 1								
51000	S - Solubility in V	Vater				MTBE :	= 51,000											
1.0E-06	TR - Target Can	cer Risk									6; Construction			f human	exposure			
250	EF - Exposure F	requency				Reside	ntial = 350); Industi	rial/Comme	rcial = 25	0; Construction	Worker = 3	0					
25			alation for Non-Carcinogens								Construction V							
68.81			centration at the center of a squ	uare source							5.81; Constru							
7.90E+08	T - Exposure Inte	erval				Reside	ntla1 = 9.5	x10 ⁸ ; In	dustrial/Co	mmercial	= 7.9 x 10 ⁸ ; Co	nstruction V	Vorker = 3.6 :	x 10 ⁶				
30	T _{ML} - Exposure I	interval for Mal	II Limit Volatilization Factor Equ	uation S26		30												
70	ED _{MA} - Exposure C	Duration for Migra	ation to Groundwater Mass-Limit E	quation S28		70												
0.18	In - Infiltration F	Rate for Migrati	on to Groundwater Mass-Limit	Equation S28		0.18												
0.102	D _i - Diffusivity in	Air		•		MTBE :	= 0.102											
0.0241	H' - Henry's Law						0.0241		-									
	D Diffusivity in						= 1.1 x 10	-\$										
25			rcinogens in ingestion Equation						1/Cammani	al = 25. C	onstruction W	-d 0 111						
25			rcinogens in ingestion Equation								Construction V							
1	THQ - Target Ha			<u> </u>		1	жы - эо,	mousus	avcommen	CIBI - 25,	Construction v	VOIKEI - U. I	13					
3	RfC - Inhalation						= 3; Sub	chronie	- 26									
0.01			icentiation)				= 0.01; S											
· •									nc = 0.1									· ·
11.50	K _{oc} - Organic Ca	noon Pannion (Joeniciem			MTBE :	≠ 11. 5		_ •		•							
	I Ingestion Reme		tives for Non-Carcinogenic Co	ontaminants	•		70		26		365				638750			
S-1 =	_		R(DJ) x EF x ED x IR	_ =	00004	x 1/	0.01	-	250	 -	25		50	- =	21.25	=	20440	mg/kg
1		10 X (1/F	ODD A CE A ED A IREG	0.00	5500 I	X 17	0.01	×	230	*	20	×	30		31.23			
Construct	lon Worker Ingest	ion Remediati THQ	ion Objectives for Non-Carcin x BW x AT x 365 RfD _a)'x EF x ED x IR _{end}	nogenic Contar	minan 1	is x	70	×	0.115	x	365				2938.25 0.144		20405 . ,	mg/kg
		10° x (1/F	(fD _e)'x EF x ED x IR _{ed}	10.0	00001	x 1/` 1	110.1	` x	30	X .		X	480		10.144	–		
· · L									•									
Construct	ion Worker Inhala	tion Tier II Bei	nzene Objective															

2.5

|S-4 =

S-5 =

Inhalation Non-Carcinogenic Construction Worker

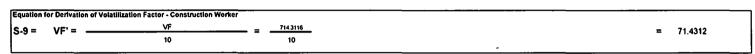


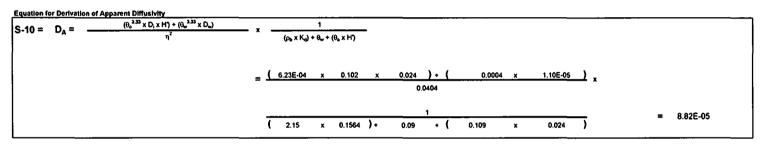


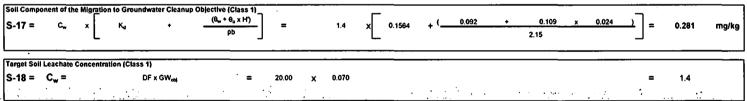
Tier 2 Industrial/Commercial Calculations for MTBE

								2016-	1089_							
RESID	ENTIAL OR CO	DMMERCIAL														
S-8	= VF =	<u> </u>	$(3.14 \times D_A \times T)^{1/2} \times 10^{-4}$	_ =	85.81	٠,	3.14	×	8.82E-05	×	7.90E+08) ^{1/2} ×	0.0001	4.0143	=	10581.5678
100	- • •		(2 x o ₂ x D ₄)		00.07	~7	2	x	2.15	×	8.82E-05)		3.79E-04	_	10001.0070

_					 •												
Cons	tructle	on Worker												 			
S-8	_	VF =	<u> </u>	(3.14 x D _A x T) ^{1/2} x 10 ⁻⁴	 85.81	٠.	3.14	x	8.82E-05	×	3.60E+06) ^{1/2} x	0.0001	 0.2710	_	714.3116	
٦	_	V 1 -	<u> </u>	(2 x pb x Da)	 05.01	<u>^(</u>	2	×	2.15	×	8.82E-05)		 3.79E-04	_	714.5110	
				•	and the things									 			







٠	<u> </u>							 ,		
	Soil-Water Partition Coefficient						•	 		
	$S-19 = K_d = K_{\infty} \times f_{\infty}$	=	11.50	x	0.014				 0.1564	į







Tier 2 Industrial/Commercial Calculations for MTBE S & S Infinite Group, Inc. - DBA Downtown 66

	2016-1089	
Water-Filled Porosity $S-20 = \Theta_{w} = \eta \times \frac{1}{K_{\bullet}}$	= 0.20 x	0.0917
	•	

Air-Filled Porosity
$$S-21 = \Theta_a = \eta + \Theta_w = 0.20 + 0.09 = 0.1090$$

GW Ingestion													
6 22 -	TR x BW x At _e x 365	_	1.0E-06	×	70	×	0	x	365	_ 0.0E+00	_	#DIV/0!	mg/L
S-23 =	SF _o x IR _w x EF x ED	-	0.000	x	1.000	Х	250	x	25	- - 0	-	#D14/0:	mg/L
L													

To	al Soll Po 24 =	rosity =	1 · Pb	=	1	 2.15 2.69			·		=	0.2007	
		•	Ρ.			2.00							

Estimation of Mixing Zone Depth
$$S-25 = d = (0.0112 \times L^2)^{0.5} + d_0 \left[1 - \exp \frac{(-L \times I)}{(K \times I \times d_0)} \right]$$

$$= (0.0112 \times 12.192 \times 12.192 \times 0.3)$$

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Soil Saturat	ion Limit		51000 04554								j
S-29 =	$C_{sat} = \frac{S}{\rho_b} x$	[(K _d x pb) + Gw + (H' x 8a)]	= 31000 x [(0.1564	x 2.15) +	0.092	+ (0.024	x 0.109)) =	10,221.04	mg/kg
1											ſ

S	oil Gas Outd	door inhalation	· ·					1.5			•		\neg
ا	S-30 = F	ROs g =	ROsoil X H X pb X 1000		249.860 x	0.024	. X	2.150 x	1000			30,046.19 п	na/m³
١,	-20 - 1	103 g -	H' X Өа + Өw + Kd X pb	N 10 10 10 10 10 15 15 15	0.024 x	0.109	.,•+	0.092 , +	0.156	X 2.150		00,040.15	
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Tier 2 Industrial/Commercial Calculations for Benzo[a]pyrene S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

Date Compiled: 02/20/18 SSL & RBCA A make at Input Values Converted Value to be used in calculation sheet --> USDA Soil Classification: Sand Holcomb's Bulk Density --> 0.000 Organic Matter (%) -> 0 FOC % (0.58 conversion) → 0.000 Organic Matter (mg/kg) FOC mg/kg (0.58 conversion) 1.5 or, Gravel = 2.0; Sand = 1.8; Sitt = 1.6; Clay = 1.7; or Site Specific 2.15 ρ_b - Dry Soil Bulk Density ps - Soil Particle Density 2.65 or, Site Specific 0.109 O. Air Filled Soil Porosity 0.109 Value from S-21 Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Sin =0.24; Clay = 0.19; or Calculated Value (S21) 0.092 Value from S-20 Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Slit = 0.16; Clay = 0.17; or Calculated Value (S20) 0.092 Ow - Water Filled Soil Porosity 0.201 n - SSL: Total Soil Porosity
0.02 i - Hydraulic Gradient 0.201 ""Value from S-24 0.43 or, Gravel - 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (\$24) Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific 0.014 foc - Total Organic Carbon (q/q) If calculated value for DF is less than 20, then 20 default is used, else calculated value is used 20 000 DF - Dilution Factor 1.670 Value from S-22 3.884 d - Mixing Zone (m) 3.884 Value from S-25 2: or calculated value Site Specific 8.64E+00 | cm/d | 3.15E+03 | cm/yr | Use cm/d for R15, R19, & R26, cm/yr for R24 31.54 K - Hydraulic Conductivity (m/yr) cm/sec = 1.00E-04 12.192 L - Source Length Parallel to Groundwater Flow (m) feet = 40 Site Specific (m) feet = 10 Site Specific (m) 3.048 d. - Aquifer Thickness (m) 0.3 for Illinois I - Infiltration Rate (m/yr) See Table K for Input Values K. - Saturated Hydraulic Conductivity 0.005 GW_{obj} - Groundwater Remediation Objective Class 1 0.025 GW_{obj} - Groundwater Remediation Objective Class 2 See Table K for Input Values 0.090 1/(2b+3) - Exponent for S20 Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70 BW - Body Weight IF_{soledi} -Age Adjusted Soil Ingestion Factor for Carcinogens 114 IR -Soil Ingestion Rate Residential = 200; Industrial/Commercial = 50; Construction Worker = 480 SF. -Oral Slop Factor Benzo[a]Pyrene = 7.3 Residential = 2; Industrial/Commercial = 1 IR, -Daily Water Ingestion Rate Benzo[a]pyrene = 0.00162 0.00162 S - Solubility in Water Residential = 10⁴; Industrial/Commercial = 10⁴; Construction Worker = 10⁶ at point of human exposure 1.0E-06 TR - Target Cancer Risk 70 AT_c -Average Time for Carcinogens 1.10E-03 URF - Inhalation Unit Risk Factor Benzojajpyrene =8.8 x 10⁻² Residential = 350; Industrial/Commercial = 250; Construction Worker = 30 EF - Exposure Frequency ED - Exposure Duration for Inhalation fo Carcinogens Residential = 30; Industrial/Commercial = 25; Construction Worker = 1 85.81 Q/C - Inverse of the mean concentration at the center of a square source Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81 9.50E+08 T - Exposure Interval Residential = 9.5 x10⁶; Industrial/Commercial = 7.9 x 10⁸; Construction Worker = 3.6 x 10⁶ 0.043 D_i - Diffusivity in Air Benzoja)pyrene = 0.043 4.63E-05 H' - Henry's Law Constant Benzo(a)pyrene = 4.63 x 104 Benzo(a)pyrene = 9.00 x 10⁻⁶ 9.00E-06 D. - Diffusivity in Water 1020000 K_∞ - Organic Carbon Partition Coefficient Benzo[a]pyrene = 1,020,000 Industrial/Commercial Ingestion Tier II Objective TR x BW x AT, x 365 1.0E-06 1.8E+00 0.784 ma/ka Sto x 10 x EF x ED x IRsoil 7,300 .X. 1,00E-06 x 250 Construction Worker Ingestion Tier II Objective TR x BW x AT, x 365 70 70 1.8E+00 17.01 S-3 = mg/kg Sf. x 10 8 x EF x IRsoil 7.300 × 1.00E-06 x 30 1 05F-01 Industrial/Commercial Inhalation Tier II Objective S-6 34 <u>- 1365</u> (2 1.0E-06。 株式(55) 70 0:02555 x - ⊳ -, 365... ≓ 2.11E+02 mg/kg 5.68E+07 ,) URF x 1000 x EF x ED x 1/VF 1000 250 x · 25 1.21E-04

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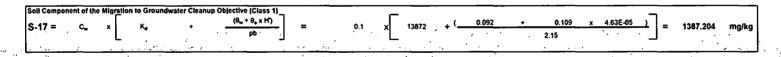


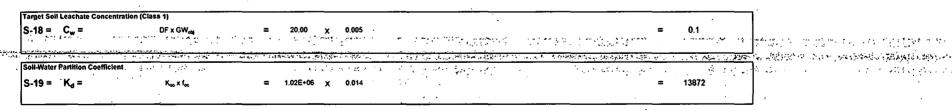
Tier 2 Industrial/Commercial Calculations for Benzo[a]pyrene S & S Infinite Group, Inc. - DBA Downtown 66

						2016-10	089								_			_
Construction Worker I	nhalation Tier II Objective													_				1
S-7 =	TR x ATc x 365	. = -	1.0E-06	_x	70	x	365						=	0.02555	=	2.71E+02	mg/kg	L
3-7 -	URF x 1000 x EF x ED x 1/VF		1.10E-03	×	1000	×	30	x	1	,	(1/	3.50E+05)		9.43E-05		2.112.02	g/g	l

Construction Worker
$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^4}{(2 \times p_b \times D_A)} = 85.81 \times \frac{(3.14 \times 3.68E-12 \times 3.68E-12 \times 0.0001)}{(2 \times 2.15 \times 3.68E-12)} = \frac{0.0001}{1.58E-11} = 3.50E+06$$

Equation for Derivation of Apparent Diffusivity
$$S-10 = D_A = \frac{(\theta_a^{3.23} \times D_1 \times H') + (\theta_a^{3.23} \times D_m)}{\eta^2} \times \frac{1}{(\rho_b \times K_b) + \theta_m + (\theta_a \times H')} = \frac{\left(8.23E.04 \times 0.043 \times 0.000 \right) + \left(0.0004 \times 9.00E.06 \right)}{0.0404} \times \frac{1}{\left(2.15 \times 13872 \right) + 0.09 + \left(0.109 \times 4.63E.05 \right)} = 3.68E-12$$





Water-Filled Porosity
$$S-20 = \Theta_{w} = \eta \times \frac{1}{K_{s}} \times \frac{1}{K_{s}} = 0.20 \times \left[\frac{0.300}{1830.000} \right]^{0.000} = 0.0917$$





Tier 2 Industrial/Commercial Calculations for Benzo[a]pyrene

S & S Infinite Group, Inc. - DBA Downtown 66

							2010-1009		
Alr-Filled Po	prosity						•		
S-21 =	$\Theta_a = \eta$	Θ,,	=	0.20	•	0.09		=	0.1090
1									

Dilutio	n Facto	or	 										
S-22	_	DF = 1 4	Kxixd	_ =	31.54	x	0.0200	x	3.884		1	=	1.6697
		· ·	 ĮIXL į		0,300		12.192			•	•	 - commercia	
										•		 	

GW Ingestion												
S.23 =	TR x BW x AL x 365	= -	1.0E-06	x	70	x	70	x	365	_ 1.8E+00	0.0000	mg/L
3-23 =	SF _o x IR _w x EF x ED		7.300	×	1.000	x	250	×	25	45625	0.0000	""grc

Total Soil Porosity
$$S-24 = \eta = 1 \cdot \frac{P_b}{P_b} = 1 \cdot \frac{2.15}{2.69} = 0.2007$$

Estimation of Mixing Zone Depth
$$S-25 = d = (0.0112 \times L^2)^{0.5} + d_0 \left[1 - \exp \left(\frac{(-L \times I)}{(K \times I \times d_0)} \right) \right]$$

$$= (0.0112 \times 12.192^{-2})^{0.5} +$$

$$3.048 \times \left[1 - \exp \left(\frac{(-12.192 \times 0.3)}{31.536 \times 0.0200 \times 3.048} \right) \right] = 3.884 \text{ m}$$

Soil Saturati	on Limit														
S-29 =	$C_{sat} = \frac{S}{\rho_b} x$	((K _d x ρb) + Ow + (H' x θa)]	$= \frac{1.62E-03}{2.15} \times [(13872$	×	2.15) +	0.092	+ (4.63E-05	×	0.109)]	=	22.47	mg/kg

Soll Gas O	utdoor inhalation															
S-30 =	ROs g =	ROsoil X H X pb X 1000	_	22.473	x	4.630E-05	X	2.150	x	1000				_	0.00008	3
3-30 -	NO3 y	H' X Oa + Ow + Kd X pb	_	4.630E-05	x	0.109	+	0.092	+	13872.000	Х	2.150		_	0.00000	mg/m³
1																

S & S Infinite Group, Inc. - DBA Downtown 66 2016-1089

Appendix C - Table K Parameter Estimates for Calculating Water - Filled Soil Porosity (Ow)

Soil Texture	Saturated Hydraulic Condu (m/yr)	ctivity (Ks)	1/ (2b+3)
Sand	1830		0.09
Loamy Sand	540		0.085
Sandy Loam	230		0.08
Silt Loam	120		0.074
Loam	60	•	0.073
Sandy Clay Loam	40		0.058
Silt Clay Loam	13	, .	0.054
Clay Loam	20		0.05
Sandy Clay	10	· · · · ·	0.042
Silt Clay	8	•	0.042
Clay	5	× 4.	0.039

Version: 4/25/2016

APPENDIX H

Water Well Survey Correspondence

CORRECTIVE ACTION PLAN AMENDMENT
S&S Infinite Group
Peoria, Illinois

CW Company Environmental Consulting Services

701 W. South Grand Avenue Springfield, IL 62704

> Phone: (217) 522-8001 Fax: (217) 522-8009

August 21, 2018

Peoria City/County Health Department 2116 North Sheridan Road Peoria, Illinois 61604

RE: LPC #1430650114—Peoria County

S & S Infinite Group, Inc. - Peoria 400 North East Adams Street Incident Number: 2016-1089

LUST Technical Reports—Site Investigation Completion Report

To whom it may concern:

We at CW³M have been hired by Mr. Syed Muneeb of S&S Infinite Group, Inc. for site assessment and remedial proceedings at their Northeast Adams Street site located at 400 North East Adams Street, Peoria, Illinois, 61603. For us to continue our work at the site we would like to know what is the status of a water well adjacent to the site.

The water well information is as follows

API number #121430074200

Located at 422 North East Adams Street.

Longitude: -89.584916 Latitude: 40.694276

Well Owner: Peoria Creamery Co.

On behalf of S&S Infinite, Inc. we thank you for your assistance. If there is any information about the current status of the well please notify us by email at vince@cwincompany.com or by mail at 701 South Grand Avenue West, Springfield, Illinois 62704.

If you have any questions or require additional information, please contact Mr. Vince Smith or me at (217) 522-8001.

Sincerely

Carol Rove, P.G.

Senior Environmental Geologist

xc: Mr. Syed Muneeb, S&S Infinite Group, Inc.

Mr. William T. Sinnott, CW3M Company, Inc.



Peoria City/County Health Department

Health Protection Division Environmental Health

August 29, 2018

Carol Rowe, P.G. 701 W South Grand Ave. West Springfield, IL 62704

RE: ENVIRONMENTAL RECORDS FOR 400 NE ADAMS STREET, PEORIA, ILLINOIS

Dear Carol Rowe:

The Peoria City/County Health Department has reviewed your request for environmental records, documents and files for the property described as 400 NE Adams Street in Peoria, Illinois.

At this time, this Department does not have any environmental records relating to the aforementioned property.

If I can be of any further assistance in this matter, please feel free to contact me. I can be reached at 309-679-6160 Monday through Friday.

Sincerely,

Carey A Panier, BS, LEHP, REHS/RS

Interim Director of Environmental Health

LEAKING UST TECHNICAL REVIEW NOTES

Reviewed by: Scott McGill

Date Reviewed: January 31, 2019

Re: LPC #1430650114 -- Peoria County
Peoria/S & S Infinite Group, Inc.

400 North East Adams Street

Leaking UST Incident No. 20161089

Leaking UST Technical File

Document(s) Reviewed:

This document consists of an amended corrective action plan and budget dated November 12, 2018 and received by the Illinois EPA on November 13, 2018 and prepared by CW3M Company. This plan and budget were prepared in accordance with the 734 requirements and summarized as follows:

Corrective Action Plan/Budget Review Notes:

The owner and operator submitted an amended corrective action plan to address contamination at the site. The owner and operator submitted an amended corrective action plan consisting of soil excavation and institutional controls. The owner and operator propose to excavate 721 cubic yards of impacted soils to a depth of 10 feet as depicted in Drawing: 0007. The excavated soils are in the vicinity of WC-1 and W-3 consisting of soils above the Tier 2 cleanup objectives. Benzene concentrations exceed the Tier 2 industrial/commercial inhalation and Xylenes exceed the Tier 2 Csat cleanup objectives. The owner and operator also propose institutional controls consisting of a construction worker caution, industrial/commercial land use restriction and groundwater ordinance. It should be noted that soil contamination in the vicinity of WC-2 and RC-1 above the Tier 2 cleanup objectives was previously removed during early action activities. Confirmation samples consisting of 6 side wall and 2 floor samples will be collected after completion of excavation activities. The excavation will be capped with 6 inches of CA6 rock. A waste characterization sample is also proposed at the site.

The amended budget proposal is included in Appendix D in the amount of \$106,603.33. This amount includes costs for advancement of a waste characterization sample including analytical soil sampling for the BTEX, MTBE and PNA constituents, excavation and backfilling 721 cubic yards of soil, personnel and material costs.

Illinois EPA Decision:

The amended corrective action plan consisting of soil excavation and backfilling and institutional controls should be approved. The budget proposal should be modified with the following cuts:

1. Costs in the amount of \$1,779.84 associated with a Geologist III to complete 16 hours consisting of reimbursement development/inputs/contractor invoicing/evaluation with budget since these costs lack supporting documentation and not reasonable as submitted;

Page 2

- 2. \$1,289.30 associated with a Senior Project Manager to complete 10 hours for groundwater ordinance negotiation development/correspondence/notification; and
- 3. \$227.49 associated with a Senior Draftperson/CAD to complete 3 hours consisting of drafting and editing maps for report.

A corrective action completion report should be submitted to the Illinois EPA.

Response Due:

A corrective action completion report should be submitted to the Illinois EPA.

Electronic Filing: Received, Clark's Office 122025 Infinite Group, Int

McGill, Scott

From:

vince@cwmcompany.com

Sent:

Thursday, January 31, 2019 11:54 AM

To: Subject: McGill, Scott [External] RE:

Scott,

The soil in the vicinity of WC-2 and RC-1 was removed as part of early action. While the tank pit at the northwest corner of the property had no soil removed, the tank pit east of the building was excavated during early action. The floor and wall samples after the excavation indicate the levels of remaining contamination in the area of WC-2 and RC-1. Only sample 11 from early action exceeds the Tier 2 CUOs, which is only for the construction worker inhalation objective for naphthalene. A construction worker caution is being requested for that area.

Let me know if you have any other questions.

Vince E. Smith, P.E.
Sr. Environmental Engineer
CWM Company, Inc.
701 W. South Grand Ave.
Springfield, IL 62704
217-522-8001
Fax 217-522-8009
vince@cwmcompany.com

----- Original Message -----

Subject:

From: "McGill, Scott" <Scott.McGill@Illinois.gov>

Date: Thu, January 31, 2019 10:10 am

To: "vince@cwmcompany.com" <vince@cwmcompany.com>

I was in the process of completing the review of the corrective action plan for S & S Infinite Group, Inc. The plan indicates that 721 cubic yards of soil is being excavated in the vicinity of WC-1 and WC-3 in order to address soil contamination exceeding the Tier 2 cleanup objectives. Soil contamination also exceeds Tier 2 cleanup objectives in the vicinity of WC-2 and RC-1 since Benzene concentrations range from 11.8 to 5.77 mg/kg, respectively, as depicted in Drawing:0003B and the Tier 2 cleanup objective is 3.70 mg/kg. Is there a reason that soil contamination is not being excavated in this area of the site or has that impacted soil already been addressed?

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

NAR OS 2010 SANGERAN

Electronic Filing: Received, Clerk's Offic Pt/8/2025 S Infinite

Elhniga

McGill, Scott

From:

vince@cwmcompany.com

Sent:

Monday, February 04, 2019 9:05 AM

To: Subject:

McGill, Scott [External] RE:

Scott,

For the first item, we would be willing to reduce the requested hours from 6 to 3, if that helps with the approval. Additional drafting beyond the SICR was needed to prepare the drawings needed in the two CAP submittals.

For the second item, we would like to point out that we received nothing for preparing the original CAP, other than the time to review and certify it. The 40 hours requested are for the preparation of this submittal, as well as the previous submittal which was approved with modifications. For a site with two unresolved incidents, to review the historical data and incorporate it into a single plan to address both incidents, and prepare two CAP submittals, one of which requests additional excavation, we feel that 40 hours is minimal and nowhere near excessive. In reality, we have already spent more than twice that amount in hours preparing the plans, and know that we will never recover it all.

For the third item, we are willing to accept the elimination of the requested 10 hours for the Senior Project Manager.

Let me know if you have any other questions.

Vince E. Smith, P.E.
Sr. Environmental Engineer
CWM Company, Inc.
701 W. South Grand Ave.
Springfield, IL 62704
217-522-8001
Fax 217-522-8009
vince@cwmcompany.com

----- Original Message ------

Subject:

From: "McGill, Scott" <Scott.McGill@Illinois.gov>

Date: Fri, February 01, 2019 8:48 am

To: "vince@cwmcompany.com" <vince@cwmcompany.com>

Vince,

I'm in the process of reviewing the corrective action plan budget for S & S Infinite Group, Inc, and I need further justification on the following personnel costs:

- 1. \$454.98 associated with 6 hours for a Senior Draftperson/CAD to complete activities consisting of drafting and editing maps for report. 6 hours appears to be excessive for drafting and editing maps for the report.;
- 2. \$5,056.00 associated with 40 hours for a Senior Project Manager to complete activities consisting of amended correction design/report development/IEPA correspondence; and
- 3. \$1,289.30 associated with 10 hours for a Senior Project Manager to complete groundwater ordinance negotiation development/correspondence/notifications. It appears that the

.

Engineer III is completing 24 hours for the same work proposed by the Senior Project Manager.

Thanks for your help.

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

LPC#1430050114-Peoria Co. Electronic Filing: Received, Clock's Office 92025 Infinite Group, Inc Technical INST

McGill, Scott

From:

vince@cwmcompany.com

Sent:

Thursday, February 07, 2019 10:51 AM

To: Subject: McGill, Scott [External] RE:

Attachments:

Amendment cons-personnel-costs - revised.pdf; Amendment consulting-material-costs-

summary - revised.pdf

Scott,

We had previously agreed in an email to remove the \$1,289.30 for Sr. Project Manager doing groundwater ordinance work. While looking at the proposed budget on this matter, we realized that the CACR preparation costs were not included in the submittal you are looking at, so we have revised the personnel and consultant materials portions of the budget to include the CACR costs, and to include the changes in the personnel costs which we previously agreed to. The attached budget sections replace those same sections previously submitted.

Let me know if you have any questions.

Vince E. Smith, P.E. Sr. Environmental Engineer CWM Company, Inc. 701 W. South Grand Ave. Springfield, IL 62704 217-522-8001 Fax 217-522-8009 vince@cwmcompany.com

LEPA. DIVISION OF RECORDS MANAGEMENT REVIEWER. JWR

RECEIVED

FEB 07 2019

----- Original Message -----

Subject:

From: "McGill, Scott" <Scott.McGill@Illinois.gov>

Date: Thu, February 07, 2019 6:53 am

To: "vince@cwmcompany.com" <vince@cwmcompany.com>

IEPA/BOL

Vince,

The budget proposal for S & S Infinite Group, Inc. included personnel costs in the amount of \$1,289.30 associated with a Senior Project Manager consisting of groundwater ordinance negotiation development/correspondence/notifications which lack supporting documentation. Please send me supporting documentation for these costs. Thanks in advance.

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential. may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

Consulting Personnel Costs Form

Employee Name	•	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
					,
		Senior Project Manager	40.00	126.40	\$5,056.00
CCAP .	Amended Corre	ctive Action Design / Report Develo	pment / IEPA C	orrespondence	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	-	<u> </u>	
	<u> </u>	Senior Prof. Engineer	2.00	164.33	\$328.66
CCAP	Report Review a	and Certification	· ·		·
	,	,	•		
·			,		
	• •		•	<u>.</u>	
		Senior Draftperson/CAD	3.00	75.83	\$227.49
CCAP	Drafting and Edi	iting Maps for Report			
			•	·	•
,					
					•
				1	
		Senior Admin. Assistant	3.00	56.88	\$170.64
CCAP	Report Compilat	tion, Assembly, and Distribution			
	· · · · · ·		•		
	-				
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		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		-
		Senior Project Manager	10.00	126.40	\$1,264.00
TACO 2 or 3	TACO Tier 2 Ca	culations / Development of CUOs /	GW Modeling		
	· · ·	· · · · · · · · · · · · · · · · · · ·		Γ	
		,			
			· · · · · · · · · · · · · · · · · · ·		
	1				

Employee Nam	ie	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task			
			7 .	η	
		Senior Project Manager	14.00	126.40	\$1,769.60
CCAP-Budget	Budget Prepara	ation / Data Evaluation			
		T	-	<u>.</u>	
		·			
		Senior Prof. Engineer	2.00	164.33	\$328.66
CCAP-Budget	Budget Review	& Certification			
		1		1	
	•	Senior Draftperson/CAD	8.00	77.35	\$618.80
ELUC	Drafting Maps f	or Groundwater Ordinance		·	
		· · · · · · · · · · · · · · · · · · ·			
		Senior Admin. Assistant	5.00	58.02	\$290.10
ELUC	Groundwater O	rdinance Notification / Correspond	ence	,	
·					
	<u> </u>	Engineer III	24.00	128.93	\$3,094.32
ELUC	Groudwater Ore	dinance Development / Correspond	dence with City /	Meeting	
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<u> </u>		-		•	

Employee Nam	е	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Task	(
·	·	Senior Project Manager	8.00	128.93	\$1,031.4
CCA-Field	Scheduling Wa	_I ste Characterization Drilling/Excav		<u> </u>	
		Engineer III	6.00	128.93	\$773.5
CCA-Field	Drilling Waste (Characterization		1.00.00	
		Senior Admin. Assistant	2.00	58.02	\$116.0
CCA-Field	JULIE/Client No	otification for Waste Characterizati	•	J	
		Senior Project Manager	8.00	128.03	\$1,024.2
CCA-Field	Field Documen	tation			
	····	Engineer III	36.00	128.93	\$4,641.4
CCA-Field	Excavation Dis	posal and Backfill Oversight/Samp	ling/Field Reports		
		Senior Draftperson/CAD	5.00	77.35	\$386.7
CCA-Field	Drafting/Docum	nentation/Excavation/Sampling/Re	sults		
		Senior Project Manager	6.00	128.93	\$773.5
CCA-Field	Analytical Resu	ilts / Tablulation	:		· · · · · · · · · · · · · · · · · · ·
			·	·	
•		J			
		Engineer III	8.00	128.93	\$1,031.4
CCA-Field	Waste Characte	 erization Sampling / Field Reports		<u>, , , , , , , , , , , , , , , , , , , </u>	φ1,051.4

Employee Name	Personn	el Title	Hours	Rate* (\$)	Total Cost
mediation Category	,	Task			
,				_	
	Senior Prof. Engir	neer	6.00	164.33	\$985.98
CA-Pay	Reimbursement Review and Certific	cation		·	
					<u> </u>
·	Senior Acct. Tech	nician	30.00	69.51	\$2,085.30
CA-Pay	Reimbursement Prepartion Form (n	nin 2 claims)		.	<u>. </u>
	Senior Admin. Ass	sistant ,	8.00	56.88	\$455.04
CA-Pay	Reimbursement Compilation, Asser	mbly, and Distribu	ıtion .		
· ·				•.	
	Geologist III		16.00	111.24	\$1,779.84
CA-Pay	Reimbursement Development / Inpu	uts / Contractor Ir	nvoicing / Evalu	ution with Budget	
•				T	
				,	
					·
·	Senior Project Ma				
	Serior Project Ma	ilagei	30.00	128.93	
CACR	Preparation of Corrective Action Co	mpletion Report	<u>フ</u>	•	
	Senior Prof. Engin	neer .			
<u> </u>	demonstrate		3.00	164.33	\$492.99
CACR.	Certification of Corrective Action Co	mpletion Report	7		· ·
<u> </u>			•	· · · ·	_ ,
	Senior Admin. Ass	istant	2.00	56.88	\$113.76
[CACR]	Assembly and Distribution of Correct	tive Action Comp	oletion Report	();	
[CACR]	Assembly and Distribution of Correc	ctive Action Comp	pletion Report	<u> </u>	
[CACR]	Assembly and Distribution of Correc	ctive Action Comp	oletion Report	()	

Total of Consulting Personnel Costs

\$32,707.63

Consultant's Materials Costs Form

Materials, Equipment,	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description/	Justification		
,					
					_
Postage		3.00	7.50	/each	\$22.50
CCAP	Report/ Forms/ Distribu	<u></u>		I.	
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	· 	<u> </u>	<u>.</u>	<u> </u>	
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	· ·			· <u>l</u>	
Postage		4.00	7.50	/each	\$30.00
CA-Pay	Reimbursement Distribu			, reactif	
		·		T	· · ·
		·		<u> </u>	_
		-			
Postage ELUC	Groundwater ordinance	4.00 e, groundwater ordinan	7.50 7.50 ce notifications	/each	\$30.00
Mileage CCA-Field	Four Round Trips from	600.00 Springfield Office to Si	.54 te (1 Drilling, 3 E	/mile xcavation)	\$324.00

Materials, Equipment	, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost		
Remediation Category	<u> </u>	Description	Description/Justification				
PID Rental		4.00	75.00	/day	\$300.0		
CCA-Field	Soil Samples						
		· · · · · · · · · · · · · · · · · · ·					
		· .					
Sampling Supplies		4.00	25.00	/day	\$100.0		
CCA-Field	Disposable Latex Glov	res, Bags, Sampling Su	upplies	•	·		
			· · ·		<u>.</u>		
-		· · · · · · · · · · · · · · · · · · ·					
Postage	···	(3.00)	7.50	/each	\$22.5		
CACR	Report/ Forms/ Distribution		<u> </u>	•	···································		
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<u> </u>		·	• •				
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				-			
		Total of Consultan	it Materials Costs		\$829.00		



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, ACTING DIRECTOR

217/524-3300

CERTIFIED MAIL

7017 2680 0001 0207 7415

FEB 11 2019

S & S Infinite Group, Inc. Attn: Syed Muneeb 400 North East Adams Street Peoria, IL 61603

Re:

LPC #1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident No. 20161089 Leaking UST Technical File

Dear Syed Muneeb:

REVIEWER JRM

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated November 12, 2018, was received by the Illinois EPA on November 13, 2018. On February 7, 2019, revised Consulting Personnel and Material Costs Forms were received which included costs associated with the development of the Corrective Action Completion Report that was omitted in the November 12, 2018 plan. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the budget is modified pursuant to Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b). Based on the modifications listed in Section 2 of Attachment A, the amounts listed in Section 1 of Attachment A have been approved. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted and shall be made to EPA.FieldNotifications@illinois.gov. This notification of field activities must be provided at least two weeks prior to the scheduled field activities.

4302 N. Main St., Rockford, IL 61103 (815) 987-7760 595 S. State St., Elgin, IL 60123 (847) 608-3131 2125 S. First St., Champaign, IL 61820 (217) 278-5800 2009 Mall St., Collinsville, IL 62234 (618) 346-5120

Page 2

Pursuant to Sections 57.7(b)(5) and 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that a Corrective Action Completion Report that achieves compliance with applicable remediation objectives be submitted within 30 days after completion of the plan to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact Scott McGill at (217) 524-5137.

Sincerely,

Michael T. Lowder

Unit Manager

Leaking Underground Storage Tank Section

Division of Remediation Management

Bureau of Land

Attachments:

Attachment A

Appeal Rights

c: Carol L. Rowe, CWM Company, Inc. (electronic copy)

BOL File

Attachment A

Re: LPC #1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street

Leaking UST Incident No. 20161089

Leaking UST Technical File

SECTION 1

As a result of Illinois EPA's modification(s) in Section 2 of this Attachment A, the following amounts are approved:

\$1,547.20	Drilling and Monitoring Well Costs
\$2,918.98	Analytical Costs
\$71,580.88	Remediation and Disposal Costs
\$0.00	UST Removal and Abandonment Costs
\$0.00	Paving, Demolition, and Well Abandonment Costs
\$30,927.79	Consulting Personnel Costs
\$829.00	Consultant's Materials Costs
	•

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

SECTION 2

\$1,779.84 for costs for reimbursement development/inputs/contractor invoicing/evaluation and budget, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act. Also, these costs are unreasonable as submitted.

In addition, the above-referenced deduction is for consulting personnel costs associated with the procurement, oversight and payment of subcontractors or field purchases. Such costs are handling charges pursuant to 35 Ill. Adm. Code 734.115. The Corrective Action Budget must not include handling charges pursuant to 35 Ill. Adm. Code 734.335(b).

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

John Therriault, Assistant Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph, Suite 11-500 Chicago, IL 60601 312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency Division of Legal Counsel 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276 217/782-5544

CW M Company

Environmental Consulting Services

701 W. South Grand Avenue Springfield, IL 62704

> Phone: (217) 522-8001 Fax: (217) 522-8009

August 13, 2019

Mr. Scott McGill, Project Manager LUST Section, Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Avenue East Springfield, IL 62794-9276

RE: LPC #1430650114—Peoria County

S & S Infinite Group, Inc. - Peoria 400 North East Adams Street Incident Number: 2016-1089

LUST Technical Reports — Corrective Action Plan Budget Amendment

Leaking UST Technical File

Leaking UST Technical File

LEPA - DIVISION OF RECORDS MANNGEMENT

OCT 24 2019

REVIEWER: JMR

1430650114 - Peoria County S & S Infinite Group, Inc.

Incident # 20161089

Dear Mr. McGill:

On behalf of S & S Infinite Group, Inc, owner of the USTs at the above referenced site in Peoria, Illinois, we are submitting the attached Corrective Action Plan Budget Amendment. The consulting material costs for the excavation were inadvertently left out of the approved budget, and are being proposed in this submittal. The excavation has been completed; we are waiting on analytical. As soon as available, the remainder of Corrective Action activities will be completed.

If you have any questions or require additional information, please contact Mr. Matthew Saladino or me at (217) 522-8001.

Sincerely,

xc:

Carol Rowe, P.G. . Senior Environmental Geologist

Mr. Syed Muneeb, S & S Infinite Group, Inc. / Downtown 66 Mr. William T. Sinnott, CW³M Company, Inc.

RECEIVED

AUG 1 6 2019

IEPA/BOL

RECEIVED
AUG 1 6 2019
IEPA/BOL



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

AUG 1 6 2019
EPA/BO
•
•

IL 532 -2825 LPC 630 Rev. 1/ 2007

Corrective Action

General Information for the Budget and Billing Forms

ţ

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of:S&S_Infinite	Group		
Send in care of: <u>CWM Company, Inc.</u>		·	
Address: P.O. Box 571			
City: Carlinville	State: IL	Zip: <u>6</u>	2626
The payee is the: Owner 🗓	Operator (Check	one or both.)	
		W-9 must b	e submitted.
Signature of the owner or operator of the I	UST(s) (required)	Click here t	o print off a W-9 Form.
or joint stock company of the owner or op	perator:		
Number of USTs at the site:7have been removed.)	(Number of USTs include	es USTs presently a	t the site and USTs that
Number of incidents reported to IEMA for	r this site: 2		
Incident Numbers assigned to the site du	ie to releases from USTs:	20140963	20161089
Please list all tanks that have ever been	located at the site and tanks	s that are presently lo	ocated at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Diesel	6,000	Yes ☑ No ☐	2014-0963	Overfill
Gasoline	10,000	Yes No 🗌	2014-0963	Overfill
Gasoline	10,000	Yes 🗓 No 🗌	2016-1089	Overfill
Gasoline	350	Yes 🗓 No 🗌	2016-1089	Tank Leak
Gasoline	350	Yes 🗓 No 🗌	2016-1089	Tank Leak
Used Oil	560	Yes 🕎 No 🗌	2016-1089	Tank Leak
Used Oil	560	Yes ☑ No ☐	2016-1089	Tank Leak
		Yes No No		
		Yes No No		





Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

Certification 1 orini
I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2016-1089 . I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 III. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 III. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:
Costs associated with ineligible tanks.
Costs associated with site restoration (e.g., pump islands, canopies).
Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
Costs incurred prior to IEMA notification. Costs associated with planned tank pulls.
Legal fees or costs. AUG 1 6 2019
Costs incurred prior to July 20, 1969.
Costs associated with installation of new USTs or the repair of existing USTs.
IEPAIDO
Owner/Operator: S & S Infinite Group, Inc. / DBA - Downtown 66
Authorized Representative: Syed Muneeb Title: Owner
Additionized Representative. Oyeu Municipal Title. Owner
Signature:
Subscribed and sworn to before me the CAROL L ROWE Seal: Official Seal: Notary Public - State of Illinois My Commission Expires Mar 18, 2021
In addition, I certify under penalty of law that all activities that are the subject of tris plan, sueget, or report were
conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer
or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were
prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget,
or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is
accurate and complete. I am aware there are significant penalties for submitting false statements or representations
to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 5747 of the
Environmental Protection Act [415 ILCS 5/44 and 57.17].
L.P.E./L.P.G.: Vince E. Smith L.P.E./L.P.G. Seal: 46118
L.P.E./L.P.G. Signature: L.P.E./L.P.G. Seal: L.P.E./L.P.G. Seal: L.P.E./L.P.G. Signature: Date: 8/3/9 L.F.E./L.P.G. Signature: L.P.E./L.P.G. Signature: Date: 8/3/9 L.F.E./L.P.G. Signature: L.P.E./L.P.G. Signature: Date: 8/3/9 L.F.E./L.P.G. Seal: L.P.E./L.P.G. Seal: L.P.E./L.P.G. Signature: L.P.E./L.P.G. Signature: L.P.E./L.P.G. Seal: L.P.E./L.P
L.F.L./L.F.G. Signature
Subscribed and sworn to before me the
(TINO)
CAROLd BOWE Official Seal
(Notary Public) Notary Public - State of Illinois

(Notary Public)

Notary Public • State of Illinois

My Commission Expires Mar 18, 2021

The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

Budget Summary

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$
Analytical Costs Form	\$	\$	\$	\$	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$.	\$	\$	<u>\$</u>
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$	\$
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 765.00
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 765.00

Consultant's Materials Costs Form

Materials, Equipment	, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
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PID Rental		3.00	75.00	/day	\$225.00
CCA-Field	Detect VOC Levels in Soil Samples				
Sample Supplies		1.00	25.00	/each	\$25.00
CCA-Field	Disposable Latex Gloves, Bags, Deionized Water, Twine, Miscellaneous Expens			Expenses	
Meals. Incidentals (Tazewell)		3.00	55.00	/day	\$165.00
Hotel		2.00	94.00	/each	\$188.00
CCA-Field				•	
Milango		200.00	E 4	/mail-	. 6460.00
Mileage CCA-Field	Two Round Trips from	300.00	.54	/mile	\$162.00

Environmental Consulting Services

701 W. South Grand Avenue Springfield, IL 62704

Phone: (217) 522-8001

1430650114 - Peoria County S & S Infinite Group, Inc.

Incident # 20161089 Leaking UST Technical File

September 10, 2019

Mr. Scott McGill, Project Manager LUST Section, Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Avenue East Springfield, IL 62794-9276

RECEIVED

SEP 1 6 2019

IFPA/BOL

RE: LPC #1430650114—Peoria County

> S & S Infinite Group, Inc. - Peoria 400 North East Adams Street Incident Number: 2016-1089

LUST Technical Reports — Corrective Action Plan Budget Amendment

Dear Mr. McGill:

On behalf of S & S Infinite Group, Inc., owner of the USTs at the above referenced site in Peoria, Illinois, we are submitting the attached Corrective Action Plan Budget Amendment. This includes costs associated with concrete replacement for work done on behalf of both incidents, which has not been included in any budget to date submitted for the incident. We apologize for any inconvenience this may have caused.

The areas requiring concrete replacement are as follows:

Former eastern UST field containing tanks 1, 2 and 3: 1,316 sq. ft.*

Corrective action excavation area: 1,853 sq. ft.*

The former was a square of the form *The former western UST field and corrective action excavation area overlap an approximate 526 sq. ft.; therefore, this amount has been approximate 526 sq. ft.; therefore, this amount has been removed from the proposed concrete replacement area as follows:

1,316 sq. ft. + 518 sq. ft. + 1,853 sq. ft. - 526 sq ft. = 3,161 sq. ft.

If you have any questions or require additional information, please contact Mr. Matthew Saladino or me at (217) 522-8001.

RECEIVED

SEP 1 6 2019

IEPA/BOL

Sincerely,

Carol Rowe, P.G.

Senior Environmental Geologist

Mr. Syed Muneeb, S & S Infinite Group, Inc. / Downtown 66 Mr. William T. Sinnott, CW^3M Company, Inc. xc:



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 1	430650114	County:	Peoria:	
City: Pe	oria	Site Name:	S & S Infinite Group,	Inc
Site Addr	ess: 400 NE Adams Street			
IEMA Inc	sident No.: 2016-1089 20	14-0963		
IEMA No	tification Date: 11/21/2016			
Date this	form was prepared: Aug 30, 2019			
This for	m is being submitted as a (check o	ne, if applicable	e):	
	Budget Proposal			
\boxtimes	Budget Amendment (Budget amend	ments must incl	ude only the costs ove	er the previous budget.)
	Billing Package			
	Please provide the name(s) and date	tale) of report(e)	documenting the cost	RECEIVED
			•	SFP 1 6 2019
• • •	114			•
This pac	Date(s):ckage is being submitted for the sit		cated below:	IEPA/BOL
35 III. Ad	dm. Code 734:			
<u>ii</u> .	Early Action			
,	Free Product Removal after Early A	ction		
	Site Investigation	Stage 1:	Stage 2:	Stage 3:
\boxtimes	Corrective Action	Actual Costs		
05.111 . 4	l O. d. 700			·. •
35 III. AC	dm. Code 732:			
	Early Action Free Product Removal after Early A	ction		
	Site Classification	Clion		
	Low Priority Corrective Action			•
	High Priority Corrective Action			•
35 III. Ad	dm. Code 731:		·	
	Site Investigation			
	Corrective Action			

IL 532 -2825 LPC 630 Rev. 1/ 2007

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: S&S	Infinite Gr	oup		
Send in care of: CWM Compa	ny, Inc.			
Address: P.O. Box 571	·			
City: Carlinville		State: IL	Zip: <u>6</u> 2	626
The payee is the: Own	er 🔃 Ope	rator (Check on	e or both.)	
Signature of the owner or operate	or of the UST(s)	(required)	W-9 must be Click here to	submitted. print off a W-9 Form.
Number of petroleum USTs in II parent or joint stock company o or joint stock company of the ov	f the owner or o	perator; and any compan		
Fewer than 101:		more:		
Number of USTs at the site:	7(Nu	ımber of USTs includes l	JSTs presently at t	the site and USTs that
have been removed.)				
Number of incidents reported to	IEMA for this s	ite:2		
Incident Numbers assigned to t	he site due to re	eleases from USTs: 2	0140963	20161089
Please list all tanks that have e	ver been located	d at the site and tanks th	at are presently lo	cated at the site.
Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Diesel	6,000	Yes 🗓 No 🗌	20140963	0verfill
Gasoline	10,000	Yes 💢 No 🗌	20140963	Overfill
Gasoline	10,000	Yes 🗓 No 🗌	20161089	Overfill
Gasoline	350	Yes X No	20161089	Tank Leak
Gasoline	350	Yes 💢 No 🗌	20161089	Tank Leak

Add More Rows

560

560

Used Oil

Used Oil

Yes 🗓

Yes X

Yes [

Yes 🗌

Undo Last Add

No 🗌

No 🗌

No 🔲

No 🗌

20161089

20161089

000394

Tank Leak

Tank Leak

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

activities for Leaking UST incident 2016–10 this budget are for necessary activities and are reasonalso certify that the costs included in this budget are of 415 ILCS 5/57, no costs are included in this budget costs exceed Subpart H: Maximum Payment Amount Appendix E Personnel Titles and Rates of 35 III. Adm	nable and accurate to the best of my knowledge and belief. I not for corrective action in excess of the minimum requirements at that are not described in the corrective action plan, and no its, Appendix D Sample Handling and Analysis amounts, and in Code 732 or 734. I further certify that costs ineligible for a 732.606 or 734.630 are not included in the budget proposal or
Costs associated with ineligible tanks.	
Costs associated with site restoration (e.g.,	pump islands, canopies)g., sewers, electrical, telephone, etc.).
Costs associated with utility replacement (e	.g., sewers, electrical, telephone, etc.).
Costs incurred prior to IEMA notification. Costs associated with planned tank pulls.	
Legal fees or costs.	SEP 1 6 2019
Costs incurred prior to July 28, 1989.	3E1 1 0 2013
Costs associated with installation of new US	STs or the repair of existing USTs. IEPA/BOL
Owner/Operator: S & S Infinite Group,	Inc.
Authorized Representative: Syed Muneeb	Title: Owner
Simple Si	Date: 9/3/19
Signature: 2 rel	Date: 9/3/19
	lay of September, 80)15
Subscribed and sworn to before me the	lay of September, SUIS.
	CAROL L ROWE Seal Official Seal
(Notary Public)	Notary Public - State of Illinois
	My Commission Expires Mar 18, 2021
	ties that are the subject of this plan, budget, or report were
	under the supervision of another Licensed Professional Engineer
	me; that this plan, budget, or report and all attachments were y knowledge and belief, the work described in the plan, budget,
	Environmental Protection Act [415 ILCS 5], 35 III. Adm. Code
	actices of my profession; and that the information presented is
accurate and complete. I am aware there are signific	ant penalties for submitting false statements or representations
to the Illinois EPA, including but not limited to fines, in	nprisonment, or both as provided in Sections 44 and 57, 17 of the
Environmental Protection Act [415 ILCS 5/44 and 57.	mprisonment, or both as provided in Sections 44 and 57, 17 of the 17].
L.P.E./L.P.G.: Vince E. Smith	L.P.E./L.P.G. Seal:
1 DE 11 DO SIMILANDO (" 5)	A Date: 9/1/GERESEA
L.P.E./L.P.G. Signature	Date: 9/8//9
Subscribed and sworn to before me the	layor softwhen 2019.
	b // IMO
	CAROL L ROWE S與Uciál Seal
Motory Dublich	Notary Public - State of Illinois
(Notary Public)	My Commission Expires Mar 18, 2021
The Illinois EPA is authorized to require this information	on Under 415 ILLOS 5/1. Disclosure or this information is

required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

Budget Summary

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
					Proposed
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$
Analytical Costs Form	\$	\$	\$	\$	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 18,144.14
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 3,143.08
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 162.20
Handling Charges Form	the Illinois EPA.	es will be determi The amount of al In the Handling Ch	lowable handling		
Total	\$	\$	\$	\$	\$ 21,449.42

Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Asphalt or Concrete	Thickness (inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
Concrete	6.00	5.74	Replacement	\$18,144.14
	-			· · ·
	Concrete	Concrete (inches) Concrete 6.00	Concrete (inches) Square Foot Concrete 6.00 5.74	Aspnait or Concrete (inches) Square Foot Placement for an Engineered Barrier Concrete 6.00 5.74 Replacement

Total Concrete and Asphalt Placement/Replacement Costs:	\$18,144.14
Placement Replacement Costs:	•

B. Building Destruction or Dismantling and Canopy Removal

lte	em to Be Destroyed, Dismantled, or Removed		Unit Cost (\$)	Total Cost (\$)
<u></u>				
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		<u></u>		<u>,= .=</u>
		<u>-</u>		
				
				· · · · · · · · · · · · · · · · · · ·

Total Building Destruction or Dismantling and	
Canopy Removal Costs:	

Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost (\$) per Foot	Total Cost
	_			

· · · · · · · · · · · · · · · · · · ·		 	 •

Consulting Personnel Costs Form

Employee Nam	e	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category		Tasi	(
		T		<u></u>	
	· ·	Engineer III	6.00	131.51	\$789.06
CCAP-Budget	Budget Amendr	ment Inputs			
			<u> </u>		
	· · · · · · · · · · · · · · · · · · ·	Senior Prof. Engineer	2.00	170.97	\$341.94
CCAP-Budget	Budget Amendr	ment Review and Certification		·	
·		1.	1		
		Senior Admin. Assistant	2.00	59.18	\$118.36
CCAP-Budget	Budget Amendr	ment Compilation, Assembly, and	Distribution		· ·
	•	<u> </u>		·	·
<u> </u>		Senior Project Manager	12.00	131.51	\$1,578.12
CCA-Field	Concrete Repla	cement / Set up / Form Area / Co	mpletion / Verific	ation	<u> </u>
		Senior Draftperson/CAD	4.00	78.90	\$315.60
CCA-Field	Editing of Maps	for Concrete Replacement / Draf	ting Concrete Loc	cation Maps	
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^{*}Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs

\$3,143.08

Consultant's Materials Costs Form

Materials, Equipment,	or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category		Description/	Justification		
Mileage		300.00	.53	/mile	\$159.00
CCA-Field	2 Round Trips for Conc	rete Replacement / La	ayout / Verification	1	
Postage		2.00	1.60	/each	\$3.20
CCAP-Budget	Copies of Budget Amer	t	1.00	768011	45.20
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Total of Consultant Materials Costs

\$162.20



IELINIOIS ENVIRONIMENTALS PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

(217) 524-3300

CERTIFIED MAIL
7018 1830 0000 5289 1500

OCT 22 2019

S & S Infinite Group, Inc. Attn: Syed Muneeb 10614 North Alex Drive Peoria, IL 61615

Re:

1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident 20161089 Leaking UST Technical File RELEASABLE

OCT 25 2019

RÉVIEWER KAJ.

Dear Syed Muneeb:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan Budget (budget) submitted for the above-referenced incident. This budget, dated September 10, 2019, was received by the Illinois EPA on September 16, 2019. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

The budget is modified pursuant to Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b). Based on the modifications listed in Section 2 of Attachment A, the amounts listed in Section 1 of Attachment A are approved. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e) and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

All future correspondence must be submitted to:

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

Page 2

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact Scott McGill at (217) 524-5137.

Sincerely,

Michael T. Lowder

Unit Manager

Leaking Underground Storage Tank Program

Remedial Project Management Section

Bureau of Land

Attachment:

Attachment A

Appeal Rights

XEX

Carol Rowe, CW3M Company (electronic copy)

BOL File

Attachment A

Re: 1430

1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident 20161089 Leaking UST Technical File

SECTION 1

As a result of Illinois EPA's modification(s) in Section 2 of this Attachment A, the following amounts are approved:

\$0.00	Drilling and Monitoring Well Costs
\$0.00	Analytical Costs
\$0.00	Remediation and Disposal Costs
\$0.00	UST Removal and Abandonment Costs
\$18,144.14	Paving, Demolition, and Well Abandonment Costs
\$0.00	Consulting Personnel Costs
\$162.20	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

SECTION 2

1. \$1,578.12, deduction for consulting personnel costs associated with the procurement, oversight, or payment of subcontracts or field purchases. Pursuant to 35 Ill. Adm. Code 734.115 "Handling Charges" mean administrative, insurance, and interest costs and a reasonable profit for the procurement, oversight, and payment of subcontracts and field purchases. Therefore, these costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd) or 734.630(cc). In addition, the Corrective Action Budget must not include handling charges pursuant to 35 Ill. Adm. Code 734.335(b).

Personnel costs in the amount of \$1,578.12, associated with 12 hours for a Senior Project Manager to conduct concrete replacement, set up, form area, completion and verification, are considered handling charges and these costs are not reasonable as submitted.

2. \$789.06 deduction for personnel costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

In addition, these costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

Costs in the amount of \$789.06, associated with 6 hours for an Engineer III to conduct budget amendment inputs, exceeds the minimum requirements and are not reasonable as submitted.

3. \$341.94 deduction for personnel costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

In addition, these costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

Cost in the amount of \$341.94, associated with 2 hours for a Senior Professional Engineer to conduct budget amendment review and certification, exceed the minimum requirements and are not reasonable as submitted.

4. \$118.36 for costs for personnel costs, which exceed the minimum requirements necessary to comply with the Act. Costs associated with site investigation and corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are not eligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

In addition, these costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

Costs in the amount of \$118.36, associated with 2 hours for a Senior Administrative Assistant to conduct budget amendment compilation, assembly and distribution exceed the minimum requirements and are not reasonable as submitted.

5. \$315.60 for costs for personnel cost, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act because they may be used for site investigation or corrective action activities in excess of those required to meet the minimum requirements of Title XVI of the Act.

In addition, these costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35III. Adm. Code 734.630(dd)

Personnel cost in the amount of \$315.60, associated with a Senior Draftperson/CAD to conduct editing of maps for concrete replacement and drafting concrete location maps, lack supporting documentation and are not reasonable as submitted.

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period of time not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

John Therriault, Assistant Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph, Suite 11-500 Chicago, IL 60601 312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency Division of Legal Counsel 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276 217/782-5544



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

(217) 524-3300

CERTIFIED MAIL 7018 1830 0000 5289 1517

OCT 22 2019

S & S Infinite Group, Inc. Attn: Syed Muneeb 10614 North Alex Drive Peoria, IL 61615

RELEASABLE

OCT 2 5 2019

REVIEWER KA

Re:

1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident 20161089 Leaking UST Technical File

Dear Syed Muneeb:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan Budget (budget) submitted for the above-referenced incident. This budget, dated August 13, 2019, was received by the Illinois EPA on August 16, 2019. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

The budget is approved for the amounts listed in Attachment A (Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b)). Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e) and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

All future correspondence must be submitted to:

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

Page 2

If you have any questions or need further assistance, please contact Scott McGill at (217) 524-5137.

Sincerely,.

Michael T. Lowder

Unit Manager

Leaking Underground Storage Tank Program

Remedial Project Management Section

Bureau of Land

Attachment: Attachment A

Carol Rowe, CW3M Company (electronic copy)

BOL File

Attachment A

Re: 1430650114 -- Peoria County Peoria/S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident 20161089 Leaking UST Technical File

SECTION 1

The following amounts are approved:

\$0.00	Drilling and Monitoring Well Costs
.\$0.00	Analytical Costs
\$0.00	Remediation and Disposal Costs
\$0.00	UST Removal and Abandonment Costs
\$0.00	Paving, Demolition, and Well Abandonment Costs
\$0.00	Consulting Personnel Costs
\$765.00	Consultant's Materials Costs
	·

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act and 35 Illinois Administrative Code 734.635.

Environmental Consulting Services

1430650114 - Peoria County S & S Infinite Group, Inc. Incident # 20161089 LUST TECH FILE

March 1, 2024

RELEASABLE

APR 1.6 2024

REVIEWER: SAB

Mr. Scott McGill, Project Manager
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62702

: LPC 1430650114—Peoria County Peoria / S & S Infinite Group, Inc. 400 North East Adams Street Leaking UST Incident No. 20161089

Dear Mr. McGill:

On behalf of S & S Infinite Group, owner of the USTs at the above referenced site in Peoria, Illinois, we are submitting the attached advertisement for the bid invitation and bid opening at CW³M's Springfield Office on March 11, 2024 at 10:00 a.m. The bid opening was advertised in the Peoria Journal Star for 10 consecutive printings, beginning February 4, 2024.

If you have any questions, please feel free to contact our office at (217) 522-8001. Thank you for your assistance.

Sincerely

Carol L. Rowe, P.G.
Senior Environmental Geologist

Enclosures

grama i salah da Nasarah Afrika da

RECEIVED

PROCESSY (Reserve of MAR 0 1 2024

IEPA/BOL

Electronic Filing: Received, Clerk's Office 1436430125- Peoria County

LOCALIQ

JournalStar | Journal-Standard Rockford Register Star S & S Infinite Group, Inc.
Incident # 20161089
LUST TECH FILE

PO Box 631200 Cincinnati, OH 45263-1200

PROOF OF PUBLICATION

701 South Grand Avenue West Rose Haas CW3M Company 701 South Grand Avenue West Springfield IL 62704

STATE OF ILLINOIS, COUNTY OF PEORIA

The Peoria Journal Star, a secular newspaper, has been continuously published daily for more than fifty (50) weeks prior to the first publication of the attached notice is published in the City of Peoria, County of Peoria, Township of Peoria, State of Illinois, is of general circulation throughout that county and surrounding area, and is a newspaper as defined by 715 ILCS 5/5.

That the attached or annexed was published in the issue dated:

02/04/2024, 02/05/2024, 02/06/2024, 02/07/2024, 02/08/2024, 02/09/2024, 02/11/2024, 02/12/2024, 02/13/2024, 02/14/2024

and that the fees charged are legal. Sworn to and subscribed before on 02/14/2024

Legal Clerk

Notary, State of WI, County of Brown

My commision expires

Publication Cost:

\$180.00

Order No:

PO #:

9813199

0

of Copies:

Customer No:

1059819

LILS0057568

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance.

KATHLEEN ALLEN
Notary Public
State of Wisconsin

RECEIVED

MAR **01** 2024

IEPA/BOL

Page 1 of 2

INVITATION FOR BIDDING

3,161 sq ft of concrete replacement 6" thick in Peoria. Prices to remain valid for 1 year from Bid acceptance.

Please call CW3M Co at 217-522-8001 or e-mail

cwm@cwmcompany.com for bid pkg. Bids are due by March 6, 2024 at 5:00 pm. Bid opening March 11, 2024 at 10:00 am at CWM's Springfield office; details provided in bid pkg.

February 4, 5, 6, 7, 8, 9, 11, 12, 13, 14 2024 LILS0057568

CW M Company

Environmental Consulting Services

Phone: (217) 522-8001 Fax: (217) 522-8009

Springfield, IL 62704

May 23, 2024

Mr. Scott McGill, Project Manager LUST Section, Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Avenue East Springfield, IL 62794-9276

RE: LPC #1430650114—Peoria County S & S Infinite Group, Inc. - Peoria

400 North East Adams Street Incident Number: 2016-1089

LUST Technical Reports — Corrective Action Plan Budget Amendment

Dear Mr. Mcgill:

On behalf of S & S Infinite Group, Inc, owner of the USTs at the above-referenced site, we are submitting the attached Corrective Action Budget Amendment.

The Corrective Action Plan and Budget received by the Illinois EPA on September 16, 2019 and approved by the Illinois EPA on October 22, 2019 included costs associated with replacing concrete. CW³M personnel began a search for a contractor that could perform the concrete replacement for the approved Subpart H rates. It has since been determined that no contractor could perform the task for the provided Subpart H unit rates. Therefore, the attached budget amendment has been formulated to request the additional costs provided by the lowest bidder. The costs included for the concrete replacement in the attached budget are the difference of the winning bid and already approved Subpart H rates. The following table goes into further detail:

Task	Subpart H Total Cost (already approved)	Lowest Bid Total Cost	Difference (requested in attached budget)
Concrete Replacement	\$18,144.14	\$37,932.00	\$19,787.86

Appendix A includes the proposed budget amendment while Appendix B includes the relevant bidding documentation. All bidding protocols set forth in 35 Illinois Administrative Code 734.855 were followed. Additional personnel and materials costs for the bidding process are included in Appendix A. If you have any questions or require additional information, please contact Matt Saladino or myself at (217) 522-8001.

Sincerely,

Carol L. Rowe, P.G.

Senior Environmental Geologist

Enclosure

xc: Mr. Syed Muneeb, S & S Infinite Group, Inc. / Downtown 66

APPENDIX A

CORRECTIVE ACTION BUDGET AMENDMENT

S & S INFINITE GROUP, INC. PEORIA, ILLINOIS

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of:	S & S Infinite Group	o, Inc.			
Send in care of: CW	M Company, Inc.				
Address: 701 South	Grand Ave. West				
City: Springfield		State:	Illinois	Zip:	62704
The payee is the:	Owner 🖾	Operator	(Check one	or both.)	
1			5-18-24	W-9 mus	t be submitted.
Signature of the owner	or operator of the l	JST(s) (required)	1	Click her	e to print off a W-9 Form.
parent or joint stock co or joint stock company Fewer th	of the owner or op			owned by an	y parent, subsidially
Number of USTs at th	e site: 7	(Number of U	STs includes US	Ts presently	at the site and USTs that
have been removed.)					
Number of incidents re	eported to IEMA for	this site: 2			
Incident Numbers ass	igned to the site du	e to releases fro	m USTs: 2014	-0963	2016-1089
Please list all tanks tha	at have ever been le	ocated at the site	e and tanks that	are presently	located at the site.

Product Stored in UST			T have ase?	Incident No.	Type of Release Tank Leak / Overfill Piping Leak	
Diesel	6,000	Yes 🖂	No 🗌	2014-0963		
Gasoline	10,000	Yes 🖂	No 🗌	2014-0963		
Gasoline	10,000	Yes 🖂	No 🗌	2016-1089	Overfill	
Gasoline	350	Yes 🖂	No 🗌	2016-1089	Tank Leak	
Gasoline	350	Yes 🖂	No 🗌	2016-1089	Tank Leak	
Diesel	560	Yes 🖂	No 🗌	2016-1089	Tank Leak	
Used Oil	560	Yes 🖂	No 🗌	2016-1089	Tank Leak	
		Yes 🗌	No 🖂			
		Yes 🗌	No 🖂			

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 6 734 C 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	s	\$	\$	\$	\$
Analytical Costs Form	\$	\$	\$	s	\$
Remediation and Disposal Costs Form	s	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	s	\$	\$	\$	s
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 19,787.86
Consulting Personnel Costs Form	\$	s	\$	\$	\$ 4,534.68
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 251.18
Handling Charges Form	the Illinois EPA.	es will be determi The amount of a n the Handling Ch	llowable handling		
Total	\$	\$	\$	\$	\$ 24,573.72

Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
3,161.00	Concrete	6.00	6.26	Replacement	\$19,787.86
			P\$46.5		
			Y COL	K = - (25)	
	A. (2011)	110	/4-15-16-16	BMARKA	
		100	TERE. J.		

Total Concrete and Asphalt Placement/Replacement Costs:	\$19,787.86
i lacement replacement costs.	

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost (\$)	Total Cost (\$)
	100	
	E 7/8-11	

Total Building Destruction or Dismantling and Canopy Removal Costs:	
Callopy Itellioval Costs.	

Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost (\$) per Foot	Total Cost
		(LENGERS		
3.0143	N=0x=205		CHREE	5 3 3 4 7
	WILLEY B			THE ST
Mark and	MEDERN	2002.23		
	I me a deservice			26 Th 15 10
		2. 4	hill a	
		100		
		5		

Total F	Paving, Demolition, and Well Abandonment Costs:	\$19,787.86
	Total Monitoring Well Abandonment Costs:	

Consulting Personnel Costs Form

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost		
Remediation Category		Task					
		Senior Project Manager	6.00	147.95	\$887.7		
CCAP-Budget	Budget Am	nendment Inputs					
		Senior Prof. Engineer	2.00	192.33	\$384.6		
CCAP-Budget	Budget Am	nendment Review and Certification					
		Senior Project Manager	8.00	147.95	\$1,183.6		
CCAP	CCAP Contacting Contractors / Getting Quotes						
	(Senior Project Manager	10.00	147.95	\$1,479.5		
CCA-Field	Bid Specific	cations / Bid Process / Bid Letting					
		Senior Admin. Assistant	6.00	66.58	\$399.4		
CCA-Field	Bid Proces	s / Advertising / Bid Letting					
dame.		Senior Admin. Assistant	3.00	66.58	\$199.74		
CCA-Field	Bid Awards	/ IEPA Reporting / Documentation					
30. 1. 110							

^{*}Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs

Consultant's Materials Costs Form

Materials, Equipment	t, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category					
Postage		2.00	16.00	/each	\$32.00
CCAP-Budget	Postage for Budget Am	nendment			
Postage		2.00	16.00	/each	\$32.00
CCAP	Postage for Bidding				
Bid Advertising Fee	# 595 E	1.00	187.18	/each	\$187.18
CCAP	Newspaper Publishing Fee				
	- A - C - C - C - C - C - C - C - C - C				
PORT PROPERTY.	transaction			T	
	TO STATE OF				
457 - 65					
	Supraville S				
	= = = 7				
	1				

Total of Consultant Materials Costs

\$251.18

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

activities for Leaking UST incident this budget are for necessary activities and are reas also certify that the costs included in this budget are of 415 ILCS 5/57, no costs are included in this budget costs exceed Subpart H: Maximum Payment Amou Appendix E Personnel Titles and Rates of 35 III. Ad	the UST Fund for costs incurred while performing corrective action 2016–1089. I further certify that the costs set forth in sonable and accurate to the best of my knowledge and belief. I se not for corrective action in excess of the minimum requirements get that are not described in the corrective action plan, and no ints, Appendix D Sample Handling and Analysis amounts, and im. Code 732 or 734. I further certify that costs ineligible for de 732.606 or 734.630 are not included in the budget proposal or not limited to:
Costs associated with ineligible tanks. Costs associated with site restoration (e.g. Costs associated with utility replacement (Costs incurred prior to IEMA notification. Costs associated with planned tank pulls. Legal fees or costs. Costs incurred prior to July 28, 1989. Costs associated with installation of new U	e.g., sewers, electrical, telephone, etc.).
Owner/Operator:	
Authorized Representative:	Title;
Signature	Date: 5-19-24
Subscribed and sworn to before me the/84h	day of May 2024 OFFICIAL SEAL CAROL L. ROWE
(Notary Public)	NOTARY PUBLIC, STATE OF ILLINOIS
conducted under my supervision or were conducted or Licensed Professional Geologist and reviewed by prepared under my supervision; that, to the best of nor report has been completed in accordance with the 732 or 734, and generally accepted standards and paccurate and complete. I am aware there are signifi	MY COMMISSION EXPIRES 03-18-2025 vities that are the subject of this plan; budget, or report were under the supervision of another Licensed Professional Engineer me; that this plan, budget, or report and all attachments were my knowledge and belief, the work described in the plan, budget, a Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code tractices of my profession; and that the information presented is cant penalties for submitting false statements or representations imprisonment, or both as provided in Sections 44 and 57.17 of the 1.17].
L.P.E./L.P.G.: Vince E. Smith	L,P.E./L.P.G. Seal:
L.P.E./L.P.G. Signature:	10 Date: 5/27/24
Subscribed and sworn to before me the 21st	OFFICIAL SEAL CARDELL. ROWE
(Notary Public)	NOTARY PUBLIC. STATE OF ILLINOIS
The Illinois EPA is authorized to require this informal	MY COMMISSION EXPIRES 03-18-2025 The bunder 415 ILCS 5/1. Disclosure of this information is

required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

APPENDIX B BIDDING DOCUMENTATION

S & S INFINITE GROUP, INC. PEORIA, ILLINOIS

From: Chad Clem <chadclem@hardsurfacinginc.com>

Sent: Tuesday, January 30, 2024 3:14 PM

To: Carol Rowe <carol_rowe@sbcglobal.net>; matts cwmcompany.com <matts@cwmcompany.com>

Subject: RE: S&S Peoria

We can not perform this work for the prices provided. The sqft amount is to low.

Thanks,

Hardrurtecing inc.

Chad Clem(President)

30 Cotton Hill Ln. Springfield, II. 62712 Phone: 217.679.4912

Fax: 217.679.4894 Mobile: 217-519-2423

chadclem@hardsurfacinginc.com

Hardsurfacing, Inc.

http://facebook.com/hardsurfacing

Bid Summary Form

Task(s) being bid:	
3,161 Square Feet of 6" Concrete	

Subcontractor	Total Bid Cost
C & G Concrete Construction Co., East Peoria, Illinois	\$37,932.00
Verardo Construction, LLC, Bartonville, Illinois	\$44,900.00

Attach additional sheets as needed.

Lowest Bid: \$ 37,932.00

hereby certify, to the best of my knowledge, that:

- The bids are based upon the same scope of work:
- 2. The scope of work does not include costs that are ineligible for payment from the Underground Storage Tank
- The bids will remain valid for a period of time that will allow the owner or operator to accept them upon the Illinois EPA's approval of the associated budget;
- 4. The bids were obtained only from parties qualified and able to perform the work;
- The bids were not obtained from any party in which the owner or operator or the primary contractor has a financial interest;
- The prices in the bids were arrived at by each bidder independently, without consultation, communication, or agreement between any parties for the purpose of restricting competition;
- Unless otherwise required by law, the prices quoted in the bids were not disclosed by any party, directly or indirectly, prior to the opening of all bids by the party requesting the bids;
- No attempt was made by any party to induce any other party to submit, not submit, or modify a bid for the purpose of restricting competition; and
- 9. Copies of all bids received have been submitted to the Illinois EPA.

I am aware there are significant criminal penalties, including felony penalties, for submitting false statements or representations to the Illinois EPA and that these penalties include, but are not limited to, fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Illinois Environmental Protection Act [415 ILCS 5/44 and 57.17].

Name: S & S Infinite Group, Inc. Contact: Syed Muneeb Signature: Date: 3-20-24 Consultant Company: CW3M Company, Inc. Contact: Carott Rowe Signature: Date: 3/20/2024

Attachments: Copy of scope of work

Copies of all bids received and Contractor Certification Forms

BID SUBMITTAL COVER PAGE

Project Location: Owner/Operator:	
400 North East Adams Street	S & S Infinite Group, Inc.
Peoria, Illinois 61603	Syed Muneeb
1 -100	10614 North Alex Drive
	Peoria, Illinois 61615
	(309) 453-2280
Scope of Work:	Owner/Operator Remediation Contractor:
3,161 Square Feet of 6" Concrete	CW ³ M Company, Inc.
.,	701 South Grand Avenue West
	Springfield, Illinois 62704
Accessed the second second	(217) 522-8001
	cwm@cwmcompany.com
Bid Submitted by: Trey Verardo	Bid Opening on: March 11, 2024
Verardo Construction LLC	CW ³ M Company, Inc.
8706 South Powell Road	701 South Grand Avenue West
Bartonville, Illinois 61607	Springfield, Illinois 62704
	(217) 522-8001
4. 3	Bidders Welcome
	Children of the Control of the Contr
A 41. 4	Bid Submitted To:
	CW ³ M Company, Inc.
	701 South Grand Avenue West
	Springfield, Illinois 62704
	(217) 522-8001
Summary of Work Bid (Attachm	ents may be provided):
Total Bid Amount: \$44,900.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Bidder: Verardo Constructi	on LLC
Contact: Trey Verardo - 309	222 1025
Trey veratuo - 309	.222.1020

03/06/2024

Date:

CONTRACTOR CERTIFICATION FORM

DATE: 03/06/2024

TO: CW3M Company, Inc.

FROM: Verardo Construction LLC

PROJECT: 3,161 square foot of 6" concrete

400 North East Adams Street, Peoria, Illinois 61603

SUMMARY OF WORK BID:

- -Install a maximum of 6" compacted rock subgrade for 3,161 square foot.
- -Drill and epoxy rebar dowels to pin into all existing concrete.
- -Form and pour 6" concrete pad on 3,161 square foot.
- -Wreck forms and saw cut concrete.

TOTAL BID AMOUNT: \$44,900.00

Bid details are attached.

I hereby certify, to the best of my knowledge, that:

- 1. The prices in the above-described and attached bid have been arrived at by the bidder independently, without consultation, communication, or agreement with any party for the purpose of restricting competition;
- Unless otherwise required by law, the prices quoted in the bid have not been and will not be disclosed by the bidder to any party, directly or indirectly, prior to the opening of all bids by the party requesting the bids; and
- 3. No attempt has been made or will be made by the bidder to induce any other party to submit, not submit, or modify a bid for the purpose of restricting competition.

I am aware there are significant criminal penalties, including felony penalties, for submitting false statements or representations to the Illinois EPA and that these penalties include, but are not limited to, fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Illinois Environmental Protection Act [415 ILCS 5/44 and 57.17].

Bidder

1.

Company: Verardo Construction LLC

Contact: Trey Verardo - 309.222.1025

Signature: / / / /

Date: 03/06/2024

Attachment

BID SUBMITTAL COVER PAGE

Project Location: 400 North East Adams Street Peoria, Illinois 61603	Owner/Operator: S & S Infinite Group, Inc. Syed Muneeb 10614 North Alex Drive Peoria, Illinois 61615 (309) 453-2280
Scope of Work: 3,161 Square Feet of 6" Concrete	Owner/Operator Remediation Contractor: CW ³ M Company, Inc. 701 South Grand Avenue West
i i i i i i i i i i i i i i i i i i i	Springfield, Illinois 62704 (217) 522-8001 cwm@cwmcompany.com
Bid Submitted by: C&G Concrete Construction Co., Inc.	Bid Opening on: March 11, 2024 CW ³ M Company, Inc. 701 South Grand Avenue West Springfield, Illinois 62704 (217) 522-8001 Bidders Welcome Bid Submitted To: CW ³ M Company, Inc. 701 South Grand Avenue West Springfield, Illinois 62704 (217) 522-8001
Summary of Work Bid (Attachments	may be provided):
Total Bid Amount:\$37,932.00	
Bidder: C&G Concrete Construc	tion Co., Inc.
Contact: Ryan Slusher	The state of the s
Signature: Ryse	
Date: 3-6-24	

Electronic Filing: Received, Clerk's Office 1/2/2025 CONTRACTOR CERTIFICATION FORM

The first the Total con-

DATE: 3-6-24

TO: CWM Company, Inc.

FROM: C&G Concrete Construction Co., Inc.

PROJECT Concrete Project in Peoria, IL 400 NE Adams Street, Peoria, IL 61603

SUMMARY OF WORK BID:
Install 6" compacted rock base on 3,161 sqft
Install 6" concrete pad on 3,161 sqft
Concrete will need pinned to existing surrounding concrete
Reinforced with synthetic fiber

TOTAL BID AMOUNT: \$37,932.00

Bid details are attached.

I hereby certify, to the best of my knowledge, that:

- 1. The prices in the above-described and attached bid have been arrived at by the bidder independently, without consultation, communication, or agreement with any party for the purpose of restricting competition;
- 2. Unless otherwise required by law, the prices quoted in the bid have not been and will not be disclosed by the bidder to any party, directly or indirectly, prior to the opening of all bids by the party requesting the bids; and

The national first fact was only and a discount and the force of the control of t

3. No attempt has been made or will be made by the bidder to induce any other party to submit, not submit, or modify a bid for the purpose of restricting competition.

I am aware there are significant criminal penalties, including felony penalties, for submitting false statements or representations to the Illinois EPA and that these penalties include, but are not limited to, fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Illinois Environmental Protection Act [415 ILCS 5/44 and 57.17].

Bidder

1. 10 to 1. 10 m

Company: C&G Concrete Construction Co., Inc.

Contact: Ryan Slusher

Signature: Ky

Date: 3-6-24

Attachment

Electronic Filing: Received, Clerk's Office 1/2/2025 Thank you for placing your order with us.

Peoria Legals < legals@pjstar.com>

Thu 2/1/2024 8:54 AM

To:rose cwmcompany.com <rose@cwmcompany.com>

THANK YOU for your ad submission!

This is your confirmation that your order has been submitted. Below are the details of your transaction. Please save this confirmation for your records.

We appreciate you using our online self-service ads portal, available 24/7. Please continue to visit Peoria Journal Star's online Classifieds HERE to place your legal notices in the future.

Changes and/or cancellations may not be honored up to 2 business days prior to your first publication date.

Job Details

Order Number:

LILS0057568

Classification:

Bids & Proposals

Package:

General Package

Base amount:

\$180.00

Service fee:

07.40

Cash/Check/ACH

\$7.18

Discount:

-\$0.00

Total payment:

\$187.18

As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH. Pay by Cash/Check/ACH and save! In no event are service

fees refundable.

Payment Type:

amex

Account Details

Rose Haas

CW3M Company 701 South Grand Avenue West

Springfield, IL @ 62704

217-522-8001

rose@cwmcompany.com

CW3M

Credit Card - amex ********2003

Schedule for ad number LILS00575680

Sun Feb 4, 2024

Peoria Journal Star

All Zones

Mon Feb 5, 2024

Peoria Journal Star

All Zones

Tue Feb 6, 2024

Peoria Journal Star

All Zones

Wed Feb 7, 2024

Peoria Journal Star Thu Feb 8, 2024 All Zones

Peoria Journal Star

Fri Feb 9, 2024

All Zones

All Zones

Peoria Journal Star Sun Feb 11, 2024

Peoria Journal Star

Mon Feb 12, 2024

Peorla Journal Star Tue Feb 13, 2024

Peoria Journal Star

Wed Feb 14, 2024 Peoria Journal Star

d Fab 44 2024

All Zones

7 117 201100



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397

JB Pritzker, Governor

James Jennings, Interim Director

(217) 524-3300

CERTIFIED MAIL

9589 0710 5270 0389 6984 06

SEP 13 2024

Syed Muneeb S & S Infinite Group, Inc. 10614 North Alex Drive Peoria, Illinois 61615

Re: 1430650114 -- Peoria County

Peoria/S & S Infinite Group, Inc.

400 NE Adams Street

Leaking UST Incident 20161089 Leaking UST Technical File

Dear Syed Muneeb:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan Budget (budget) submitted for the above-referenced incident. This budget, dated May 23, 2024, was received by the Illinois EPA on May 23, 2024. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

The budget is rejected for the reason(s) listed in Attachment A (Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b)).

All future correspondence must be submitted to:

Illinois Environmental Protection Agency Bureau of Land - #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

2125 S. First Street, Champaign, IL 61820 (217) 278-5800 115 S. LaSalie Street, Suite 2203, Chicago, IL 60603 1101 Eastport Plaza Dr., Suite 100, Collinsville, IL 62234 (618) 346-5120 9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000 595 S. State Street, Elgin, IL 60123 (847) 608-3131 2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200 412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022 4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

Page 2

If you have any questions or need further assistance, please contact the undersigned at (217) 524-0407 or at Stephanie.Sample@illinois.gov.

Sincerely,

Stephanie Sample

Project Manager

Leaking Underground Storage Tank Section

Stephonie Sample

Bureau of Land

SP SP

20161089 Amended CAP Budget Response Letter (5-23-24).docx

Attachments: Attachment A

Appeal Rights

c: CW³M Company, Matt Saladino (electronic copy), matts@cwmcompany.com

BOL File

Attachment A

Re: 1430650114 -- Peoria County
Peoria/S & S Infinite Group, Inc.
400 NE Adams Street
Leaking UST Incident 20161089
Leaking UST Technical File

Citations in this attachment are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

1. Pursuant to Sections 57.7(b)(3) and 57.7(c)(3) of the Act and 35 III. Adm. Code 734.800(a), Subpart H of 35 III. Adm. Code 734 provides three methods for determining the maximum amounts that can be paid from the Fund for eligible corrective action costs. The first method for determining the maximum amount that can be paid for each task is to use the maximum amount for each task set forth in 35 III. Adm. Code 734.810 through 734.850 and 734.870. The second method for determining the maximum amount that can be paid for each task is bidding in accordance with 35 III. Adm. Code 734.855. The third method for determining the maximum amount that can be paid for each task is to determine the maximum amount for unusual or extraordinary circumstances in accordance with 35 III. Adm. Code 734.860.

Pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.870(d)(l), for costs approved by the Illinois EPA in writing prior to the date the costs are incurred, the applicable maximum amounts must be the amounts in effect on the date the Illinois EPA received the budget in which the costs were proposed. Once the Illinois EPA approves costs, the applicable maximum amounts must not be increased, e.g., by proposing the costs in a subsequent budget.

Pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.870(d)(3), the owner or operator must have the burden of requesting the appropriate maximum amounts.

Pursuant to Section 57.7(c)(3) of the Act, 35 Ill. Adm. Code 734.630(dd), unreasonable costs proposed as part of a budget are ineligible for payment from the Fund. Owners and operators seeking payment must demonstrate to the Illinois EPA that the amounts sought are reasonable pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.850(6).

The Paving Costs requests \$19,787.86 for 3,161.00 square feet of concrete replacement at 6" in thickness at \$6.26 per square foot. The Paving Costs for the 3,161.00 square feet of concrete were approved in the Corrective Action Plan and Budget decision letter dated October 22, 2019. Approval of the requested costs would violate 35 Ill. Adm. Code 734.870(d)(J). Once Paving Costs have been approved by the Illinois EPA for the concrete replacement, the applicable maximum payment amount cannot be increased by proposing the cost in a subsequent budget. Please note that an amount determined via bidding is considered a maximum payment amount pursuant to 35 Ill. Adm. Code 734.855. The following line items are deducted:

- a. \$19,787.86 for Paving, Demolition, and Well Abandonment Costs for 3,161.00 square feet of concrete at six inches in thickness at \$6.26 per square foot.
- b. \$4,534.68 for Consulting Personnel Costs associated with bidding, preparing the budget for the bidding costs, and additional reimbursement claim costs for the bidding.
- c. \$251.18 for Consultant's Materials Costs associated with additional costs for bidding.
- 2. Pursuant to Section 57.7(c)(3)(C)(ii) of the Act and 35 Ill. Adm. Code 734.855, bidding is allowed only if the owner or operator demonstrates that corrective action cannot be performed for amounts less than or equal to maximum payment set forth in 35 Ill. Adm. Code 734.Subpart H.
 - No demonstration was provided to indicate that the paving could not be completed for the previously approved maximum payment amount. In addition, no demonstration was made to indicate that the increase in the Paving Costs is attributable to site-specific costs, and not inflation over the 5-year period between the original approval for the Paving Costs in the Illinois EPA decision letter dated October 22, 2019, and the bidding performed in March 2024. Bidding is used as an alternative to the maximum payment amount for non-inflationary costs if a Subpart H maximum payment amount cannot be met, not as an option to increase a previously approved maximum payment amount.
- 3. Pursuant to Section 57.7(c)(3)(B)(ii) and 35 III. Adm. Code 855(a)(2), at least 14 days prior to the date set in the invitation for the opening of bids, public notice of the invitation for bids must be published by the owner or operator in a local paper of general circulation for the area in which the site is located. The owner or operator must also provide a copy of the public notice to the Illinois EPA. The notice must be received by the Illinois EPA at least 14 days prior to the date set in the invitation for the opening of bids.
 - The date set in the invitation for the opening of bids was March 11, 2024. The Illinois EPA was not informed of the bidding until May 23, 2024.
- 4. Pursuant to Section 57.7(c)(3)(B)(iii) of the Act and 35 III. Adm. Code 734.855(a)(3)(C), the person opening the bids may not serve as a witness. The names of the persons opening the bids and the names of all witnesses must be recorded and submitted to the Illinois EPA on the bid summary form required under 35 III. Adm. Code 734.855(b).
 - The names of the persons opening the bids and the names of all witnesses were not submitted to the Illinois EPA.

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Clerk of the Board Illinois Pollution Control Board 60 East Van Buren Street, Suite 630 Chicago, IL 60605 (312) 814-3461

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency Division of Legal Counsel 1021 North Grand Avenue East PO Box 19276 Springfield, IL 62794-9276 (217) 782-5544