

SCS ENGINEERS

June 29, 2018
File No. 25211228.72

Ms. Cynthia Koepke
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Contaminated Soil Excavation Construction Documentation Report and Post-Remediation Groundwater Monitoring Results
Former McGettigan Property (MOM Partnership)
2803 – 2809 University Avenue
Madison, Wisconsin
BRRTS No. 02-13-321347

Dear Ms. Koepke:

On behalf of MOM Partnership, SCS Engineers prepared this Construction Documentation Report for excavation of contaminated soil at the former McGettigan Property (Property), located at 2803 – 2809 University Avenue, Madison, Wisconsin. The report also includes results for the initial post-remediation quarterly groundwater monitoring event.


The excavation and groundwater monitoring work was performed consistent with the SCS March 6, 2018 Revised Cost Estimate for Remedial Action and the Wisconsin Department of Natural Resources' (WDNR's) March 28, 2018 approval letter.

Approximately 937 tons of tetrachloroethylene (PCE)-contaminated soil was removed from the Property for landfill disposal. Groundwater results show that PCE and related degradation products continue to decrease. Based on these findings, we recommend that the WDNR consider the case for closure.

Please contact Robert Langdon at (608) 216-7329 if you have any questions concerning this report.

Sincerely,


Robert Langdon
Project Manager
SCS ENGINEERS


Mark R. Huber, PE
Vice President/Project Director
SCS ENGINEERS

REL/lmh/MRH



Ms. Cindy Koepke
June 29, 2018
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cc: Mr. Dennis O'Loughlin, MOM Partnership
Mr. Chuck Chvala, Chvala Law Office (e-copy)
Mr. Louis Fortis, Findlay Partnership (e-copy)

Enclosures: Contaminated Soil Excavation Construction Documentation Report and Post-Remediation Groundwater Monitoring Results

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Contaminated Soil Excavation
Construction Documentation Report and
Post-Remediation Groundwater
Monitoring Results

**Former McGettigan Property
2803 – 2809 University Avenue
Madison, Wisconsin**

Prepared for:

MOM Partnership

3934 Partridge Road
DeForest, Wisconsin 53532

Prepared by:

SCS ENGINEERS

2830 Dairy Drive
Madison, Wisconsin 53718-6751
(608) 224-2830

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**Contaminated Soil Excavation Construction Documentation Report
and Post-Remediation Groundwater Monitoring Results
Former McGettigan Property
2803 – 2809 University Avenue
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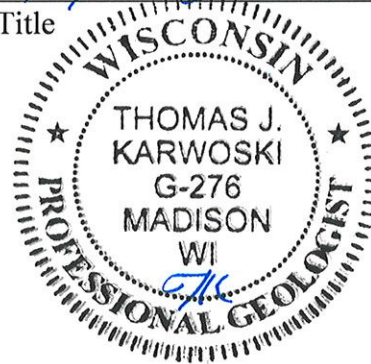
CERTIFICATIONS

"I, Thomas J. Karwoski, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Thomas J. Karwoski
Signature

Hydrogeologist
Title

6/29/2018
Date



"I, Mark R. Huber, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Mark R. Huber
Signature

Senior Engineer
Title

6-27-2018
Date

E-31719
PE Number



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1.0 INTRODUCTION

This Construction Documentation Report serves to document excavation and disposal of contaminated soil from the former McGettigan Property, located at 2803 – 2809 University Avenue, Madison, Wisconsin (Property). The report also includes results for the initial post-remediation quarterly groundwater monitoring event, which was performed in June 2018.

This report has been prepared consistent with the following:

- Wisconsin Administrative Code, Chapter 724
- BT Squared (now SCS Engineers [SCS]) February 3, 2009 Proposal for Remedial Action
- SCS March 6, 2018 Revised Cost Estimate for Remedial Action
- SCS March 13, 2018 Request for variance to DERF bidding requirements
- WDNR March 28, 2018 Approval of a Variance Request/Revised Cost Estimate for Remedial Action

1.1 LOCATION AND PROJECT INFORMATION

1. Responsible Party
MOM Partnership
3934 Partridge Road
Deforest, Wisconsin 535323
608.846.1851
2. Site Owner:
Findlay Partnership Association, LLP C/O
Custom Real Estate
131 West Wilson Street
Madison, Wisconsin 53703
608.258.8222
3. Site Address:
2803 – 2809 University Avenue
Madison, Wisconsin 53705
4. Site Location:
NE ¼, NW ¼, Section 21, T07N, R09E
Lat/Lon: 43.0740639, -89.436753
WTM Coordinates: 565,854, 289,193
Dane County (**Figure 1**)
5. Environmental Consultant:
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718-6751
608.224.2830 – phone
608.224.2839 – fax
6. Project Manager:
Robert Langdon, SCS Engineers

7. Senior Hydrogeologist: Thomas Karwoski PG, SCS Engineers
8. Senior Engineer: Mark Huber PE, SCS Engineers
9. BRRTS #: 02-13-321347
10. WDNR Contact: Cynthia Koepke
608.275.3257

1.2 BACKGROUND

A drycleaner was formerly operated at the subject Property. It is not known when operations began, but the facility was closed in 1986.

A release of dry cleaning solvent (i.e., tetrachloroethene [PCE]) was reported to the Wisconsin Department of Natural Resources (WDNR) on June 18, 2002. The release was discovered during a Phase 2 Environmental Site Assessment (ESA). Subsequent site investigation has included installation of and sampling of numerous soil borings and groundwater monitoring wells to delineate the extent of contamination in soil and groundwater.

SCS (formerly BT Squared) was contracted to perform environmental site investigation activities. A Site Investigation Report (SIR) was submitted to the WDNR on September 13, 2006. Subsequent interim action activities focused on vapor assessment and vapor mitigation, and included an additional round of groundwater sampling in October 2015. Additional details from the site investigation and interim action work are summarized below.

Site soils consist of up to 3 feet of silty gravel fill overlying variable sequences of silt, clay, and silty sand to a maximum depth of approximately 10 feet below ground surface (bgs). These soils are underlain by sand that extends to the top of sandstone bedrock at approximately 39 feet bgs. Groundwater is present within the sand at depths of approximately 25 to 30 feet bgs.

During site investigation activities, chlorinated volatile organic compounds (CVOCs) including PCE, trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) were detected in soil at concentrations in excess of NR 720 groundwater pathway residual contaminant levels (RCLs).

Soil exceeding RCLs appears to be limited to the source Property with the highest concentrations found near the southwest corner of the former drycleaner facility. The highest concentrations are found within the above-noted shallow sequenced soil units (i.e., in low permeability silt and clay). However, CVOCs were not detected in soil at concentrations in excess of non-industrial direct contact RCLs.

During groundwater sampling conducted in October 2015, PCE was detected at concentrations in excess of the NR 140 enforcement standard (ES) in samples from five of the 13 groundwater monitoring wells sampled. No other CVOCs were detected at concentrations in excess of ESs. Four of these wells are located on the source Property. The only off-site well with a PCE ES

exceedance is located directly downgradient of the source Property north of University Avenue. Repeated groundwater sampling has shown that CVOC concentrations are either stable or decreasing naturally over time.

PCE has been detected in City of Madison municipal well No. 6., which is located approximately 200 feet east (side gradient) of the subject Property, at levels below the ES since at least 1995. This municipal well was constructed in 1938 with a 30-inch-diameter steel casing to 70 feet bgs. This casing reduces to a 24-inch-diameter galvanized wrought iron casing, which terminates above the Eau Claire Shale at 221 feet bgs. The well is open above and below the Eau Claire Shale from 221 to 751 feet bgs. The well appears to be susceptible to shallow groundwater contamination, possibly through corrosion of its galvanized wrought iron casing or due to its intake of shallow groundwater above the Eau Clare shale.

The former drycleaner Property has been identified by the Madison Water Utility as a potential source for PCE in municipal well No. 6; however, there are other potential sources in the area, and sampling results suggest the former drycleaner is not the source. There are two groundwater monitoring wells (water table well UPMW2 and deep piezometer PZ2) located on the west side of the municipal well property between the municipal well and the former drycleaner Property. These wells have been sampled repeatedly for CVOCs since 2004, and neither PCE nor PCE breakdown products have been detected.

Nine sub-slab vapor probes were installed at five surrounding businesses and apartment buildings and sampled to assess the potential for vapor intrusion. Other than the source Property building, vapors were not detected at concentrations in excess of WDNR vapor risk screening levels (VRSLs).

A vapor mitigation system (VMS) was installed at the source Property building in September 2014 to address the potential for migration of vapors into the building. The vapor assessment and mitigation work, along with the above-noted October 2015 groundwater sampling work, was conducted under a WDNR-approved interim action scope.

A proposal for remedial action, including excavation of contaminated soil and post-excavation groundwater monitoring was submitted to the WDNR on February 3, 2009. The proposal was acceptable to the WDNR at the time of submittal; however, the work did not proceed due to financial limitations and subsequent focus on vapor assessment and mitigation tasks.

On March 6, 2018, SCS submitted a revised cost estimate to the WDNR for the excavation. On March 13, 2018, SCS submitted a request for a variance to DERF bidding requirement for the excavation. The revised cost estimate and variance request was approved by the WDNR in their letter dated March 28, 2018.

2.0 CONTAMINATED SOIL EXCAVATION

2.1 EXCAVATION, DISPOSAL, AND BUILDING MONITORING

Excavation of contaminated soil was performed in order to remove the most heavily impacted soil, which exhibited PCE concentrations at up to 8,500 micrograms per kilogram ($\mu\text{g}/\text{kg}$). Post-remediation quarterly groundwater monitoring was initiated in June 2018.

Soil excavation work was performed by Reconex, Inc. of Wisconsin Dells, Wisconsin, consistent with SCS bid specifications included in SCS's March 6, 2018 revised cost estimate. Excavation photos are included in **Appendix A**. Final excavation dimensions are shown on **Figures 2** and **3**. Survey control points were placed on the exterior south and west walls of the building prior to commencing excavation to monitor for building movement during excavation. Two crack monitors were placed on the interior west wall of the building basement to monitor for movement inside the building. The exterior survey points were surveyed before, during, and after excavation for indication of movement. The crack monitors were inspected visually over the same time period. Control point survey information is included in **Attachment B**. Significant movement was not observed with the survey control points or crack monitors.

Excavation commenced on May 21, 2018, with Reconex operating two excavators to remove and load asphalt and contaminated soil into trucks. Asphalt pavement from the excavation area was transported to Yahara Material's Meinholtz quarry in Middleton for recycling. Contaminated soil, approximately 937 tons, was hauled to Waste Management's Madison Prairie Landfill for disposal. The excavation was advanced to a depth of approximately 10 feet bgs. Landfill disposal documentation is included in **Appendix C**.

The excavation was backfilled with limestone screenings to a depth of approximately 1 foot bgs followed by base course, and then capped with asphalt pavement as shown on **Figure 3**. Fill material was compacted in maximum 1-foot lifts using a vibratory plate compactor attached to the excavator.

2.2 CONFIRMATION SOIL SAMPLING

Ten soil samples were collected from the excavation base and sidewalls at locations shown on **Figure 2**. The samples were submitted to TestAmerica of University Park, Illinois, for laboratory analysis of VOCs. The laboratory analytical report is included in **Appendix D** and results are summarized in **Table 1**.

Confirmation soil analytical results indicate that the excavation successfully removed the most heavily impacted soil from the source area. Only relatively low concentrations of PCE remain outside the limits of excavation at concentrations exceeding the groundwater pathway RCL.

3.0 GROUNDWATER MONITORING

The first round of quarterly post-remediation groundwater monitoring was completed in June 2018. Water levels were measured and groundwater samples were collected from all site monitoring wells (MW1R, MW2, MW2P, MW3, MW4P, MW5, MW6, MW7, MW8, PZ2, UPMW1, UPMW2, UPMW3, and UPMW4). Samples were submitted to TestAmerica of University Park, Illinois, for laboratory analysis of VOCs. The groundwater laboratory report is included in **Appendix E**. Analytical results are summarized in **Table 2**. Water level information is summarized in **Table 3**. A groundwater flow map is included as **Figure 4**.

The June 2018 groundwater monitoring results are consistent with prior sampling results and show that:

- Groundwater flow is to the north at a gradient of approximately 0.03 ft/ft.
- PCE was the only constituent of concern detected in the groundwater samples.
- The highest PCE concentration detected was 15 micrograms per liter ($\mu\text{g/L}$) for UPMW4.
- PCE was detected at concentrations in excess of the ES ($5 \mu\text{g/L}$) in samples from wells MW1R, MW2, and UPMW4.
- PCE concentrations exceeded only the preventive action limit ($0.5 \mu\text{g/L}$) but were less than the ES in samples from wells MW3 and MW5.
- PCE was not detected in samples from wells MW2P, MW4P, MW6, MW7, MW8, PZ2, UPMW1, UPMW2, and UPMW3
- Groundwater CVOC concentrations continue to decrease with time. Plots showing historic CVOC concentrations for various wells are included in **Appendix F**.

4.0 SUMMARY AND RECOMMENDATIONS

Excavation and groundwater monitoring work was performed consistent with the approved remedial action. Excavation successfully removed the most heavily impacted soil from the source area leaving relatively low concentrations of CVOCs in soil beyond the excavation limits. Initial post-remediation groundwater monitoring results are consistent with prior monitoring results and show that groundwater flow is to the north, and that CVOCs continue to decrease over time. Based on these findings, SCS recommends that the WDNR consider closure of the case.

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TABLES

- 1 Soil Analytical Results Summary
- 2 Groundwater Analytical Results Summary
- 3 Water Level Summary

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	Benzene	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
B100	3/18/2002	0-2	1.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	8,500	<25	<25	<25	<25	<50	<25
	3/18/2002	14-16	11.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	450	<25	<25	<25	<25	<50	<25
	3/18/2002	22-24	4.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	190	<25	<25	<25	<25	<50	<25
GB1 S2	8/30/2002	4	8.7	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	246	<25	<25	<25	<25	<50	<50
GB1 S3	8/30/2002	6	5.2	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	1,180	<25	<25	<25	<25	<50	<50
GB2 S1	8/30/2002	2	18.0	--	ND	<25	<25	1,240	34.7	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB2 S4	8/30/2002	8	5.2	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	217	<25	<25	<25	<25	<50	<50
GB3 S1	8/30/2002	2	22.6	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	2,390	<25	151	<25	<25	<50	<50
GB3 S3	8/30/2002	6	9.8	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	639	<25	55.3	<25	<25	<50	<50
MW1 S3	9/3/2002	9	1.1	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
MW1 S5	9/3/2002	14	1.1	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
B4X S1	9/4/2002	2-4	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
GB4 S3	5/28/2003	5	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB4 S4	5/28/2003	8	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB5 S3	5/28/2003	5	4.5	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB6 S4	5/28/2003	8	3.5	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB7 S3	5/28/2003	5	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	177	<25	<25	<25	<25	<50	<50
GB7 S5	5/28/2003	9	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB7 S7	5/28/2003	13	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<50
GB7 S11	5/28/2003	22	56.4	--	ND	25,100	5,900	<1,000	<1,000	14,100	ND	13,100	7,040	<1,000	<1,000	<1,000	7,570	5,800	13,370	2,920
GB8 S6	5/28/2003	12	4.3	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
GB8 S9	5/28/2003	18	1.6	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
GB9 S6	5/28/2003	12	3.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	191	<1,000	<25	<25	<25	<50	<50
GB9 S10	5/28/2003	19	3.8	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	132	<1,000	<25	<25	<25	<50	<50
GB10 S6	5/28/2003	12	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	62.2	<1,000	<25	<25	<25	<50	<50
GB11 S3	5/28/2003	5	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	162	<1,000	<25	<25	<25	<50	<50
GB11 S8	5/28/2003	16	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	77.7	<1,000	<25	<25	<25	<50	<50
GB12 S4	5/28/2003	8	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	2,870	<1,000	155	<25	<25	<50	<50
GB12 S10	5/28/2003	20	0.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	452	<1,000	<25	<25	<25	<50	<50
HA1 S1	5/29/2003	1	4.8	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	35.9	<1,000	<25	<25	<25	<50	<50
HA1 S5	5/29/2003	5	8.0	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	52.5	<1,000	<25	<25	<25	<50	<50
HA1 S10	5/29/2003	10	10.8	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	95.3	<1,000	<25	<25	<25	<50	<50

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	Benzene	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
GB1A	4/20/2004	0-1.5	0.0	--	ND	<31	<31	<31	<31	<31	ND	159	<31	<u>34</u>	416	<31	<31	<31	<62	<43
	4/20/2004	1.5-3	3.4	--	ND	<28	<28	<28	<28	<28	ND	<u>817</u>	<28	<28	<28	<28	92	54	146	<39
	4/20/2004	3-5	3.1	--	ND	<28	<28	<28	<28	<28	ND	188	<28	<28	<28	<28	144	38	182	<39
	4/20/2004	8-10	1.0	--	ND	<30	<30	<30	<30	<30	ND	<30	<30	<30	<30	<30	<30	<30	<60	<42
GB2A	4/20/2004	0-1.5	0.0	--	ND	<28	<28	<28	<28	<28	ND	<28	<28	<28	<28	<28	<28	<28	<56	<39
	4/20/2004	1.5-3	0.0	--	ND	<28	<28	<28	<28	<28	ND	<28	<28	<u>205</u>	<28	<28	<28	<28	<56	<40
	4/20/2004	3-5	0.0	--	ND	<28	<28	<28	<28	<28	ND	<28	<28	<u>270</u>	<28	<u>39</u>	<28	<28	<56	<39
GB3A	4/20/2004	0-1.5	0.0	--	ND	<28	<28	<28	<28	<28	ND	<28	<28	<28	<28	<28	<28	<28	<56	<39
	4/20/2004	1.5-3	0.0	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<u>33</u>	<31	<31	<31	<31	<62	<44
	4/20/2004	3-5	0.0	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<u>1,040</u>	<31	<31	<31	<31	<62	<44
	4/20/2004	10-10.5	0.0	--	ND	<28	<28	<28	<28	<28	ND	<28	<28	<28	<28	<28	<28	<28	<56	<39
GB4A	4/20/2004	0-1.5	0.0	--	ND	<30	<30	<30	<30	<30	ND	<30	<30	<30	<30	<30	<30	<30	<60	<42
	4/20/2004	1.5-3	0.0	--	ND	<28	<28	<28	<28	<28	ND	<28	<28	<28	<28	<28	<28	<28	<56	<39
	4/20/2004	3-5	0.0	--	ND	<32	<32	<32	<32	<32	ND	<32	<32	<u>35</u>	<32	<32	<32	<32	<64	<45
GB5A	4/20/2004	0-1.5	0.0	--	ND	<30	<30	<30	<30	<30	ND	<30	<30	<30	<30	<30	<30	<30	<60	<42
	4/20/2004	1.5-3	0.0	--	ND	<32	<32	<32	<32	<32	ND	<32	<32	<u>507</u>	<32	<32	<32	<32	<64	<44
	4/20/2004	3-5	0.0	--	ND	<32	<32	<32	<32	<32	ND	<32	<32	<32	<32	<32	<32	<32	<64	<44
	4/20/2004	7-8	0.0	--	ND	<30	<30	<30	<30	<30	ND	<30	<30	<30	<30	<30	<30	<30	<60	<42
GB6A	4/20/2004	0-1.5	2.1	--	ND	<30	<30	<30	<30	<30	ND	<30	<30	<u>110</u>	<30	<u>110</u>	<30	<30	<60	<42
	4/20/2004	1.5-3	1.7	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<u>221</u>	<31	<31	<31	<31	<62	<43
	4/20/2004	3-5	--	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<u>40</u>	<31	<31	<31	<31	<62	<44
GB7A	4/20/2004	0-1.5	2.1	--	ND	<29	<29	<29	<29	<29	ND	<29	<29	<u>656</u>	<29	<29	<29	<29	<58	<40
	4/20/2004	1.5-3	2.5	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<u>136</u>	<31	<31	<31	<31	<62	<43
	4/20/2004	3-5	2.1	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<31	<31	<31	<31	<31	<62	<43
GB8A	4/20/2004	0-1.5	1.7	--	ND	<29	<29	<29	<29	<29	ND	<29	<29	<u>44</u>	<29	<29	<29	<29	<58	<41
	4/20/2004	1.5-3	1.7	--	ND	<29	<29	<29	<29	<29	ND	61	<29	<u>140</u>	<29	<29	<29	<29	<58	<41
	4/20/2004	3-5	1.3	--	ND	<31	<31	<31	<31	<31	ND	<31	<31	<31	<31	<31	<31	<31	<62	<43
GB13	6/26/2007	0-2	3.5	(1)	ND	<30	<30	<u>44</u>	<30	<30	ND	<60	<30	<u>920</u>	<30	<u>160</u>	<30	<30	<60	<100
	6/26/2007	6-8	4.0	(1)	ND	<31	<31	<31	<31	<31	ND	<62	<31	<u>340</u>	<31	<31	<31	<31	<62	<110
GB14	6/26/2007	0-2	0.0	(1)	ND	<29	<29	<29	<29	<29	ND	<59	<29	<u>52</u>	<29	<u>45</u>	<29	<29	<58	<100
	6/26/2007	4-6	7.0	--	ND	<31	<31	<31	<31	<31	ND	<62	<31	<u>1,000</u>	<31	<u>110</u>	<31	<31	<62	<110

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	Benzene	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
GB15	6/26/2007	0-2	0.0	--	ND	<28	<28	<28	<28	<28	ND	<56	<28	<28	<28	<28	<28	<28	<56	<96
	6/26/2007	4-6	1.4	--	ND	<31	<31	<31	<31	<31	ND	<63	<31	450	<31	<31	<31	<31	<62	<110
GB16	6/26/2007	0-2	0.0	--	ND	<26	<26	<26	<26	<26	ND	<53	<26	<26	<26	<26	<26	<26	<52	<89
	6/26/2007	4-6	0.0	--	ND	<30	<30	<30	<30	<30	ND	<59	<30	160	<30	<30	<30	<30	<60	<100
GB17	6/26/2007	0-2	4.2	--	ND	<28	<28	89	<28	<28	ND	<57	<28	960	<28	84	<28	<28	<56	<96
	6/26/2007	4-6	5.6	--	ND	<32	<32	<32	<32	<32	ND	<64	<32	900	<32	54	<32	<32	<64	<110
GB18	6/26/2007	2-4	4.0	--	ND	<29	<29	41	<29	<29	ND	<57	<29	1,800	<29	100	<29	<29	<58	<97
	6/26/2007	6-8	23	--	ND	<31	<31	33	<31	<31	ND	<62	<31	2,000	<31	170	<31	<31	<62	<110
SS-1	5/21/2018	3	4.7	(2)	75	<26	<25	<28	<24	<25	220 J, cn	<23	<28	160	<10	<11	<24	<26	<50	<15
SS-2	5/21/2018	10	1.0	(2)	17	<21	<20	<23	<19	<20	140 J, cn	<18	<23	<20	<8.1	<9.1	<20	<21	<41	<12
SS-3	5/21/2018	3	0.6	(2)	<11	<28	<27	<30	<26	<27	200 J, cn	<24	<30	<27	<11	<12	<26	<28	<54	<16
SS-4	5/21/2018	3	2.5	(2)	<12	<31	<29	370	<28	<29	210 J, cn	<27	<33	260	<12	260	<28	<30	<58	<17
SS-5	5/22/2018	5	5.8	(3)	<11	<29	<28	<31	<26 *	<27	<120	<25	<31	280 *	<11	<12 *	<27	<29	<56	<17
SS-6	5/22/2018	10	3.5	(3)	<9.4	<25	<23	<26	<23 *	<23	<110	<22	<27	<24 *	<9.5	<11 *	<23	<25	<48	<14
SS-7	5/22/2018	10	7.5	(3)	<8.3	<22	<21	<23	<20 *	<20	<92	<19	<23	<21 *	<8.3	<9.3 *	<20	<21	<41	<12
SS-8	5/22/2018	5	8.4	(3)	<11	<29	<27	<30	<26 *	<27	<120	<25	<31	930 *	<11	<12 *	<27	<28	<55	<16
SS-9	5/22/2018	10	4.7	(3)	<8.0	<21	<20	<22	<19 *	<20	<90	<18	<23	<20 *	<8.1	<9.0 *	<20	<21	<41	<12
SS-10	5/22/2018	10	4.6	(3)	<8.7	<23	<22	<24	<21 *	<22	<98	<20	<25	<22 *	<8.8	<9.8 *	<21	<23	<44	<13
MeOH Blank	8/30/2002	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	9/3/2002	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	9/4/2002	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	5/28/2003	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	5/29/2003	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<1,000	<25	<25	<25	<50	<50
	4/20/2004	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<35
	4/20/2004	--	--	--	ND	<25	<25	<25	<25	<25	ND	<25	<25	<25	<25	<25	<25	<25	<50	<35
6/26/2007	--	--	--	ND	<25	<25	<25	<25	<25	ND	<50	<25	<25	<25	<25	<25	<25	<50	<85	
Trip Blank	5/21/2018	--	--	(3)	<7.3	<19	<18	<20	<18 *	<18	<82	<17	<21	<19 *	<7.4	<8.2 *	<18	<19	<37	<11

Table 1. Soil Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72
 (Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID	Lab Notes	Benzene	n-Butylbenzene	1,4-Dichlorobenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2,4- & 1,3,5-TMB Combined	Xylenes
NR 720 Groundwater Pathway RCLs with a Wisconsin-Default Dilution Factor of 2					5.1	NE	144	41.2	62.6	NE	2.6	658.2	NE	4.5	1,107.20	3.6	(a)		1,378.70	3,960
NR 720 Non-Industrial Direct Contact RCLs					1,600	108,000	3,740	156,000	1,560,000	162,000	61,800	5,520	264,000	33,000	818,000	1,300	219,000	182,000	NE	260,000
NR 720 Industrial Direct Contact RCLs					7,070	108,000	16,400	2,340,000	1,850,000	162,000	1,150,000	24,100	264,000	145,000	818,000	8,410	219,000	182,000	NE	260,000

Abbreviations:

mg/kg - micrograms per kilogram or parts per billion (ppb)
 PID = Photo-Ionization Detector

NE = Not Established
 SSRCL = Site Specific Residual Contaminant Level

µg/kg = micrograms per kilogram or parts per billion (ppb)
 RCL = Residual Contaminant Level

Notes:

Only detected compounds shown.

Bold+underlined values exceed an NR 720 RCL, as of December 2017.

(a) NR 720 Groundwater Pathway RCLs for 1,2,4 and 1,3,5 Trimethylbenzene Combined = 1,378.7

* = LCS or LCSD is outside acceptance limits.

cn = Method(s) 8260B: The method blank for batch 434732 was non-detect for all target analytes. Samples associated with this method blank detected Methylene Chloride just below the reporting limit. Methylene Chloride is a known lab contaminant; therefore all low level detects for this compound should be considered lab contamination. The results have been flagged with a "CN" to denote the probable contamination. SS-1 (3') (500-145846-1), SS-2 (10') (500-145846-2), SS-3 (3') (500-145846-3) and SS-4 (3') (500-145846-4).

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Laboratory Notes:

(1) Chloromethane - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits. 1,2,3- & 1,2,4-Trichlorobenzene - The RPD exceeded the acceptance limit.

(2) Bromomethane and Dichlorodifluoromethane - LCS or LCSD is outside acceptance limits.

(3) Bromomethane, Carbon tetrachloride, Chloroethane, Dichlorodifluoromethane, 1,1-Dichloroethene, 1,1-Dichloropropene, Ethylbenzene, 1,1,1-Trichloroethane, Trichlorofluoromethane - LCS or LCSD is outside acceptance limits.

Last revision by: LMH Date: 6/5/2018

Checked by: REL Date: 6/26/2018

I:\2287\Tables-General\[Soil_VOCs.xls]VOCs

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Chloromethane	Dibromochloromethane (Chlorodibromomethane)	Dichlorodifluoromethane	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	TMBs	Vinyl Chloride	Xylenes
MW1	9/17/2002	--	<15.5	<18.0	<16.5	<13.5	<14.5	<43.5	<23.0	<8.50	<11.5	<19.5	<25.0	<15.5	<16.0	<25.5	<40.0	<15.0	269	<15.0	<18.0	<35.5	<10.0	<46.0
	10/16/2002	--	<6.20	<7.20	<6.60	<5.40	<5.80 CSH SPH	<17.4	<9.20 CSH	<3.40	<4.60	<7.80	<10.0	<6.20	<6.40	<10.2 CSH	<16.0 CSH	<6.00	279 CSH	<6.00	<7.20	<14.20	<4.00	<18.40
	10/16/02 (Dup)	--	<6.20	<7.20	<6.60	<5.40	<5.80 CSH SPH	<17.4	<9.20	<3.40	<4.60	<7.80	<10.0	<6.20	<6.40	<10.2	<16.0 CSH	<6.00	275	<6.00	<7.20	<14.20	<4.00	<18.40
	5/21/2004	--	<3.10	<3.60	<4.00	<4.00	<2.90 CSH	<8.70	<7.00	<4.00	<4.00	<3.90	<5.00	<3.10	<5.00	<5.00	<8.00	<3.00	139	<3.00	<5.00	<7.10	<2.00	<9.20
MW1R	8/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	140	<0.20	3.3	<0.40	<0.20	<0.50
	11/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	4.5 S2	<0.25	<0.50	95	<0.20	1.1	<0.40	<0.20 C	<0.50
	2/7/2006	--	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<0.40	<2.0	<0.50	<1.0	81	<0.40	<0.40	<0.80	<0.40	<1.0
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	140	<0.67	0.91 J	<1.8	<0.18	<2.63 &
	2/5/2008	(10)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	72	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	21	<0.50	<0.20	<0.40	<0.20	<0.50
	10/8/2015	--	<0.50	<0.50	<2.2	<2.5	1.8	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	10.3	<0.50	<0.33	<1.0	<0.18	<1.5
	6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	1.3 J2	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	11	<0.15	<0.16	<0.61	<0.20	<0.22
MW2	9/17/2002	--	<6.20	<7.20	<6.60	<5.40	<5.80	<17.4	<9.20	<3.40	<4.60	<7.80	<10.0	<6.20	<6.40	<10.2	<16.0	<6.00	188	<6.00	<7.20	<14.20	<4.00	<18.40
	9/17/02 (Dup)	--	<6.20	<7.20	<6.60	<5.40	<5.80	<17.4	<9.20	<3.40	<4.60	<7.80	<10.0	<6.20	<6.40	<10.2	<16.0	<6.00	187	<6.00	<7.20	<14.20	<4.00	<18.40
	10/16/2002	--	<6.20	<7.20	<6.60	<5.40	<5.80 CSH SPH	<17.4	<9.20 CSH	<3.40	<4.60	<7.80	<10.0	<6.20	<6.40	<10.2 CSH	<16.0 CSH	<6.00	122 CSH	<6.00	<7.20	<14.20	<4.00	<18.40
	5/20/2004	--	<1.55	<1.80	<2.00	<2.00	<1.45 CSH	<4.35	<3.50	<2.00	8.57	<1.95	<2.50	<1.55	<2.50	<2.50	<4.00	<1.50	296	<1.50	19.6	<3.55	<1.00	<4.60
	5/25/2005	(1)	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	7.1	<0.50	<0.50	<0.20	<0.20	1.5 J	NA	<0.50	200	<0.20	17	<0.40	<0.20	<0.50
	8/23/2005	--	<0.80	<0.80	<1.0	<0.80	<0.80	<0.80	<2.0	<2.0	3.2 J	<2.0	<2.0	<0.80	<0.80	<4.0	<1.0	<2.0	140	<0.80	9.2	<1.60	<0.80	<2.0
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	5.1	<0.50	<0.50	<0.20	<0.20	3.7 S2	<0.25	<0.50	130	<0.20	8.0	<0.40	<0.20	<0.50
	2/7/2006	--	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<1.0	<1.0	13	<1.0	<1.0	<0.40	<0.40	<2.0	<0.50	<1.0	220	<0.40	17	<0.80	<0.40	<1.0
	6/27/2007	(6)	<1.0	<2.3	<2.2	<0.92	<0.60	<2.0	<2.5	<0.90	11	<2.2	<1.4	<1.5	<1.7	<1.1	<1.8	<2.0	320	<1.7	21	<4.5	<0.45	<6.6 &
	2/5/2008	(10)	<0.41	<0.93	<0.89	<0.37	0.26 Q	<0.81	<0.99	<0.36	20	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	270	<0.67	24	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	0.57 J	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	59	<0.50	1.9 J	<0.40	<0.20	<0.50
	10/8/2015	--	<0.50	<0.50	<2.2	<2.5	1.6	<0.50	<0.22	<0.17	0.36 J1	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	63.1	<0.50	3.0	<1.0	<0.18	<1.5
6/7/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	11	<0.15	<0.16	<0.61	<0.20	<0.22	

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Chloromethane	Dibromochloromethane (Chlorodibromomethane)	Dichlorodifluoromethane	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	TMBs	Vinyl Chloride	Xylenes
MW2P	9/17/2002	--	<0.31	<0.36	<0.33	<0.27 SL	<0.29	<0.87 SL	<0.46 SL	<0.17 SL	1.35	<0.39	<0.5	<0.31	<0.32	<0.51 SL	<0.8	<0.3	27.9	<0.3	1.43	<0.71	<0.2	<0.92
	10/16/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSH SPH	<0.87	<0.46 CSH	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51 CSH	<0.8 CSH	<0.3	11.1 CSH	<0.3	<0.36	<0.71	<0.2	<0.92
	5/20/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	17.3	<0.3	<0.5	<0.71	<0.2	<0.92
	5/25/2005	(2)	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	1.3 J	<0.25 C4	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.5 S2	<0.25	<0.50	3.5	<0.20	<0.20	<0.40	<0.20	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	3.2	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	12	<0.67	<0.48	<1.8	<0.18	<2.63 &
	10/9/2007	(7)	<0.21	<0.23	<0.24	<0.20	<0.15	<0.17	<0.15	<0.15	<0.21	<0.22	<0.23	<0.21	<0.23	<0.40	<0.25	<0.23	16	<0.20	0.93	<0.46	<0.17	<0.43
	2/5/2008	(10)	<0.41	<0.93	<0.89	1.3	0.42 Q	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	3.4	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	2.3	<0.50	<0.20	<0.40	<0.20	<0.50
	10/8/2015	--	<0.50	<0.50	<2.2	<2.5	3.3	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	8.8	<0.50	<0.33	<1.0	<0.18	<1.5
10/8/2015 (Dup)	--	<0.50	<0.50	<2.2	<2.5	2.2	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	9.0	<0.50	<0.33	<1.0	<0.18	<1.5	
6/7/2018	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22	
MW3	9/17/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29	<0.87	<0.46	<0.17	2.0	2.93	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	23.7	<0.3	16.9	<0.71	<0.2	<0.92
	10/16/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSH SPH	<0.87	<0.46 CSH	<0.17	2.35	2.5	<0.5	<0.31	<0.32	<0.51 CSH	<0.8 CSH	<0.3	24.3 CSH	<0.3	20.6	<0.71	<0.2	<0.92
	5/20/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	29.8	<0.3	1.04 J	<0.71	<0.2	<0.92
	5/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	10	<0.20	<0.20	<0.40	<0.20	<0.50
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	1.0 J	1.4 J	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	13	<0.20	10	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	1.9	3.5	<0.50	<0.20	<0.20	3.9 S2	<0.25	<0.50	49	<0.20	32	<0.40	<0.20 C	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	50	<0.20	2.4	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	7.6	<0.67	0.55 J	<1.8	<0.18	<2.63 &
	10/9/2007	(7)	<0.21	<0.23	<0.24	<0.20	<0.15	<0.17	<0.15	<0.15	<0.21	<0.22	<0.23	<0.21	<0.23	<0.40	<0.25	<0.23	8.9	<0.20	1.5	<0.46	<0.17	<0.43
	2/5/2008	(10)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	0.92 Q	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	18	<0.67	7.9	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	39	<0.50	<0.20	<0.40	<0.20	<0.50
	10/9/2015	--	<0.50	<0.50	<2.2	<2.5	0.74 J1	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	9.5	<0.50	<0.33	<1.0	<0.18	<1.5
6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	3.3	<0.15	<0.16	<0.61	<0.20	<0.22	

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Chloromethane	Dibromochloromethane (Chlorodibromomethane)	Dichlorodifluoromethane	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	TMBs	Vinyl Chloride	Xylenes	
MW4P	9/17/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29	<0.87	<0.46	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	3.12	<0.3	<0.36	<0.71	<0.2	<0.92	
	10/16/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSH SPH	<0.87	<0.46 CSH	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51 CSH	<0.8 CSH	<0.3	2.7 CSH	<0.3	<0.36	<0.71	<0.2	<0.92	
	5/20/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	3.22	<0.3	<0.5	<0.71	<0.2	<0.92	
	5/25/2005	(2)	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	1.7 J	<0.25 C4	<0.50	7.3	<0.20	<0.20	<0.40	<0.20	<0.50	
	8/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	12	<0.20	<0.20	<0.40	<0.20	<0.50	
	11/22/2005	(3)	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.5 S2	<0.25	<0.50	6.2	<0.20	<0.20	<0.40	<0.20 C	<0.50	
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50	
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	4.9	<0.67	<0.48	<1.8	<0.18	<2.63 &
	10/9/2007	(7)	<0.21	<0.23	<0.24	<0.20	<0.15	<0.17	<0.15	<0.15	<0.21	<0.22	<0.23	<0.23	<0.21	<0.23	<0.40	<0.25	<0.23	16	<0.20	0.34 J	<0.46	<0.17	<0.43
	2/5/2008	(10)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	2.9	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	0.75 J	<0.50	<0.20	<0.40	<0.20	<0.50
10/8/2015	--	<0.50	<0.50	<2.2	<2.5	2.4	<0.50	<0.22	<0.17	<0.26	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	1.1	<0.50	<0.33	<1.0	<0.18	<1.5	
6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.16	<0.15	<0.16	<0.61	<0.20	<0.22	
MW5	1/21/2004	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSL	<0.87	<0.46 CSL	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	20	<0.3	<0.36	<0.71	<0.2	<0.92	
	5/20/2004	--	<0.31	<0.36	<0.4	0.623 J	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	14.8	<0.3	<0.5	<0.71	<0.2	<0.92	
	5/24/2005	--	<0.20	<0.20	<0.25	2.1	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	14	<0.20	<0.20	<0.40	<0.20	<0.50	
	8/23/2005	--	<0.20	<0.20	<0.25	10	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	8.8	<0.20	<0.20	<0.40	<0.20	<0.50	
	11/22/2005	--	<0.20	<0.20	<0.25	3.0	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.5 S2	<0.25	<0.50	11	<0.20	<0.20	<0.40	<0.20 C	<0.50	
	2/7/2006	--	<0.20	<0.20	<0.25	7.8	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	12	<0.20	<0.20	<0.40	<0.20	<0.50	
	6/27/2007	(6)	<0.41	<0.93	<0.89	7.9	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	13	<0.67	<0.48	<1.8	<0.18	<2.63 &
	10/9/2007	(7)(8)	<0.21	<0.23	<0.24	30	<0.15	<0.17	<0.15	<0.15	<0.21	<0.22	<0.23	<0.23	<0.21	<0.23	<0.40	<0.25	<0.23	8.2	<0.20	<0.20	<0.46	<0.17	<0.43
	2/5/2008	(10)	<0.41	<0.93	<0.89	26	0.76 Q	<0.81	<0.99	<0.36	<0.83	<0.89	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	9.1	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	1.5 J	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	5.7	<0.50	<0.20	<0.40	<0.20	<0.50
10/9/2015	--	<0.50	<0.50	<2.2	<2.5	<0.50	<0.50	<0.22	<0.17	<0.26	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.33	<1.0	<0.18	<1.5	
6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	2.7	<0.15	<0.16	<0.61	<0.20	<0.22	
MW6	1/21/2004	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSL	<0.87	<0.46	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	2.41	<0.3	<0.36	<0.71	<0.2	<0.92	
	5/20/2004	--	<0.31	<0.36	<0.4	0.502 J	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	9.47	<0.3	<0.5	<0.71	<0.2	<0.92	
	5/24/2005	--	<0.20	<0.20	<0.25	0.43 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	5.3	<0.20	<0.20	<0.40	<0.20	<0.50	
	8/23/2005	--	<0.20	<0.20	<0.25	0.66 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	3.3	<0.20	<0.20	<0.40	<0.20	<0.50	
	11/22/2005	--	<0.20	<0.20	<0.25	0.66 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.2 S2,J	<0.25	<0.50	1.2 J	<0.20	<0.20	<0.40	<0.20	<0.50	
	2/7/2006	--	<0.20	<0.20	<0.25	0.55 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	5.7	<0.20	<0.20	<0.40	<0.20	<0.50	
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	8.9	<0.67	<0.48	<1.8	<0.18	<2.63 &
	2/5/2008	(10)	<0.41	<0.93	<0.89	2.0	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	4.9	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	(13)	<0.20	<0.20	<0.25	0.57	<0.30	0.71 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	1.2 J	<0.50	0.82 J	<0.50	<0.20	<0.40	<0.20	<0.50
	10/9/2015	--	<0.50	<0.50	<2.2	<2.5	<0.50	<0.50	<0.22	<0.17	<0.26	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	2.1	<0.50	<0.33	<1.0	<0.18	<1.5
6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22	

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Chloromethane	Dibromochloromethane (Chlorodibromomethane)	Dichlorodifluoromethane	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	TMBs	Vinyl Chloride	Xylenes
MW7	5/20/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	<0.45	<0.3	<0.5	<0.71	<0.2	<0.92
	5/24/2005	(4)	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	1.0 C4, J	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25 C4	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	NA
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	1.2 J	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.5 S2	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20 C	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	0.67 J	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63 &
	3/22/2011	--	<0.20	<0.20	<0.25	0.31 J	<0.30	<0.20	0.52 J	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.40	<0.20	<0.50
	10/9/2015	(14)	<0.50	<0.50	<2.2	<2.5	0.56 J1	0.65 J1	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.33	<1.0	<0.18	<1.5
6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22	
MW8	5/24/2005	(4)	<0.20	<0.20	<0.25	0.21 J	<0.20	<0.20	<0.50 C4	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25 C4	<0.50	1.6 J	<0.20	<0.20	<0.40	<0.20	NA
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.50	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	2.0	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.3 S2	<0.25	<0.50	1.0 J	<0.20	<0.20	<0.40	<0.20 C	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	1.5	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	1.0 J	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	1.8	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	0.77 J	<0.67	<0.48	<1.8	<0.18	<2.63 &
	3/22/2011	--	<0.20	<0.20	<0.25	3.6	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.40	<0.20	<0.50
	10/9/2015	--	<0.50	<0.50	<2.2	<2.5	1.1	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.33	<1.0	<0.18	<1.5
	6/6/2018	--	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22
PZ2	5/24/2005	--	<0.20	<0.20	<0.25	0.28 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	8/23/2005	--	<0.20	<0.20	<0.25	0.42 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	0.28 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	3.9 S2	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	0.37 J	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63 &
	10/9/2007	(7)	<0.21	<0.23	<0.24	0.37	<0.15	<0.17	<0.15	<0.15	<0.21	<0.22	<0.23	<0.21	<0.23	<0.40	<0.25	<0.23	<0.21	<0.20	<0.20	<0.46	<0.17	<0.43
	2/5/2008	(10)	<0.41	<0.93	<0.89	1.7	0.28 Q	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	(11)	<0.20	<0.20	<0.25	0.35 J	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.40	<0.20	<0.50
	10/9/2015	--	<0.50	<0.50	<2.2	<2.5	0.53 J1	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.33	<1.0	<0.18	<1.5
6/7/2018	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22	
U PUMP MW1	5/20/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	<0.45	<0.3	<0.5	<0.71	<0.2	<0.92
	5/24/2005	--	16	<0.20	0.87	<0.20	<0.20	<0.20	<0.50	4.8	<0.50	<0.50	6.9	2.0	0.46 J	<1.0	0.95	1.0 J	<0.50	0.70	<0.20	17.3	<0.20	34
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	5.4	<0.50	<0.50	<0.50	<0.20	<0.20	4.1 S2	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	0.78 J	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63 &
	3/22/2011	--	92	<0.40	<0.50	<0.40	<0.60	<0.40	<1.0	<1.0	4.5	<1.0	190	7.9	<0.40	<2.0	65	18	<1.0	60	<0.40	178	<0.40	670
	10/9/2015	--	9.3	<0.50	<2.2	<2.5	0.59 J1	<0.50	<0.22	<0.17	0.39 J1	<0.26	44.4	2.0	<0.50	<0.23	11.7	5.1	<0.50	5.7	<0.33	34.8	<0.18	97.2
6/7/2018	(15)	85	<0.39	1.9	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	220	9.7	0.98 J2	<1.6	42	24	<0.37	13	<0.16	72	<0.20	380	

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Chloromethane	Dibromochloromethane (Chlorodibromomethane)	Dichlorodifluoromethane	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	TMBs	Vinyl Chloride	Xylenes
U PUMP MW2	5/21/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	<0.45	<0.3	<0.5	<0.71	<0.2	<0.92
	5/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63 &
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.40	<0.20	<0.50
	10/8/2015	(14)	<0.50	<0.50	<2.2	<2.5	1.0	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.33	<1.0	<0.18	<1.5
	6/7/2018	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22
U PUMP MW3	5/21/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	1.48 J	<0.3	<0.5	<0.71	<0.2	<0.92
	5/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	1.3 J	<0.20	<0.20	<0.40	<0.20	<0.50
	11/22/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	4.3 S2	<0.25	<0.50	1.5 J	<0.20	<0.20	<0.40	<0.20	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	1.2 J	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	1.4 J	<0.67	<0.48	<1.8	<0.18	<2.63 &
	3/22/2011	(12)	<0.20	<0.20	<0.25	0.32 J	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.40	<0.20	<0.50
	6/7/2018	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22
	6/7/2018 Dup	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22
UPUMP MW4	9/17/2002	--	386	<36.0	<33.0	<27.0	<29.0	<87.0	<46.0 CSH	<17.0	<23.0	<39.0	89.8	<31.0	<32.0	<60.0 CSH	<80.0 CSH	<30.0	<32.0	50	<36.0	175.4	<20.0 CSH	367.4
	10/16/2002	--	352	<18.0	<16.5	<13.5	<14.5 CSH SPH	<43.5	<23.0	<8.50	<11.5	<19.5	178	<15.5	<16.0	<25.5	72.2 CSH	<15.0	38	<15.0	<18.0	256.7	<10.0	89.7
	5/21/2004	--	<6.20	<7.20	<8.00	<8.00	<5.80 CSH	<17.4	<14.0	<8.00	<8.00	<7.80	<10.0	<6.20	<10.0	<10.0	<16.0	<6.00	176	<6.00	<10.0	<14.20	<4.00	<18.4
	8/24/2005	--	0.63 J	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	67	<0.20	7.9	<0.40	<0.20	<0.50
	11/23/2005	(5)	9.8	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	4.1	0.70 J	0.52 J	<0.20	<0.20	<1.0	<0.25	<0.50	120	<0.20	27	<0.40	<0.20 C	0.50 J
	2/7/2006	--	<0.40	<0.40	<0.50	<0.40	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<0.40	<2.0	<0.50	<1.0	100	<0.40	7.9	<0.80	<0.40	<1.0
	6/27/2007	(6)	1.9	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	0.86 J	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	180	<0.67	5.7	<1.8	<0.18	<2.63 &
	2/5/2008	(10)	<0.41	<0.93	<0.89	<0.37	0.43 Q	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	130	<0.67	7.4	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.25	<0.20	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	45	<0.50	0.7 J	<0.40	<0.20	<0.50
	10/8/2015	--	<0.50	<0.50	<2.2	<2.5	1.9	<0.50	<0.22	<0.17	0.27 J1	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	88.5	<0.50	4.2	<1.0	<0.18	<1.5
6/7/2018	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	15	<0.15	<0.16	<0.61	<0.20	<0.22	
UPUMP MW5	10/16/2002	--	165	<18.0	<16.5	<13.5	<14.5 CSH SPH	<43.5	<23.0	<8.50	<11.5	<19.5	1,860	92	<16.0	<25.5	501 CSH	191	30.2	900	<18.0	2,446	<10.0	7,030
	5/21/2004	--	218	407	<100	<100	<72.5 CSH	<218 CSL	<175	<100	<100	<97.5	1,680	152	<125	<125	<200	150	<113	3,470	<125	1,387	<50.0	6,900
	5/25/2005	(2)	87	<10	16 J	<10	<10	<10	<25	<25	<25	<25	1,700	94	<10	<50	290 C4	200	<25	970	<10	2,020	<10	6,100
	8/24/2005	--	240	<10	16 J	<10	<10	<10	<25	<25	<25	<25	1,800	96	12 J	<50	240	190	<25	1,900	<10	2,160	<10	7,300
	11/23/2005	--	90	<10	14 J	<10	<10	<10	<25	<25	<25	<25	1,200	110	12 J	<50	340	200	28 J	260	<10	2,440	<10	4,800
	2/7/2006	--	170	<8.0	16 J	<8.0	<8.0	<8.0	<20	<20	<20	<20	1,200	100	<8.0	<40	320	200	32 J	520	<8.0	2,450	<8.0	4,800
UPUMP MW6	10/16/2002	--	2,610	<720	<660	<540	<580 CSH SPH	<1,740	<920 CSH	<340	<460	<780	4,370	<620	<640	<1,020 CSH	<1,600 CSH	<600	<640 CSH	6,860	<720	2,010	<400	16,320

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71
 (Results are in µg/L)

Sample	Date	Lab Notes	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Chloromethane	Dibromochloromethane (Chlorodibromomethane)	Dichlorodifluoromethane	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethylene	Toluene	Trichloroethylene	TMBs	Vinyl Chloride	Xylenes
U PUMP PZ1	5/21/2004	--	<155	<180	<200	<200	<145 CSH	<435 CSL	<350	<200	<200	<195	1,510	<155	<250	<250	<400	<150	<225	4,400	<250	790	<100	6,080
	5/25/2005	(2)	<4.0	<4.0	9.6 J	<4.0	<4.0	<4.0	<10	<10	<10	<10	780	47	<4.0	<20	74 C4	100	<10	22	<4.0	940	<4.0	2,900
	8/23/2005	--	5.8	<4.0	8.0 J	<4.0	<4.0	<4.0	<10	<10	<10	<10	550	35	5.0 J	<20	88	81	<10	4.2 J	<4.0	1,050	<4.0	2,400
	11/22/2005	--	12 J	<4.0	7.4 J	<4.0	<4.0	<4.0	<10	<10	<10	<10	550	46	5.2 J	<20	74	99	<10	<4.0	<4.0	920	<4.0	1,700
Trip Blank	9/17/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29	<0.87	<0.46	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	<0.32	<0.3	<0.36	<0.71	<0.2	<0.92
	10/16/2002	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSH SPH	<0.87	<0.46	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	<0.32	0.591	<0.36	<0.71	<0.2	<0.92
	1/21/2004	--	<0.31	<0.36	<0.33	<0.27	<0.29 CSL	<0.87	<0.46	<0.17	<0.23	<0.39	<0.5	<0.31	<0.32	<0.51	<0.8	<0.3	<0.32	<0.3	<0.36	<0.71	<0.2	<0.92
	5/20/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	<0.45	<0.3	<0.5	<0.71	<0.2	<0.92
	5/21/2004	--	<0.31	<0.36	<0.4	<0.4	<0.29 CSH	<0.87 CSL	<0.7	<0.4	<0.4	<0.39	<0.5	<0.31	<0.5	<0.5	<0.8	<0.3	<0.45	<0.3	<0.5	<0.71	<0.2	<0.92
	5/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	5/25/2005	(2)	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	1.3 J	<0.25 C4	<0.50	<0.50	0.3 J	<0.20	<0.40	<0.20	<0.50
	8/23/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	11/24/2005	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	4.4 S2	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	2/7/2006	--	<0.20	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.40	<0.20	<0.50
	6/27/2007	(6)	<0.41	<0.93	<0.89	<0.37	<0.24	<0.81	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63 &
	10/9/2007	(7)	<0.21	<0.23	<0.24	<0.20	<0.15	<0.17	<0.15	<0.15	<0.21	<0.22	<0.23	<0.21	<0.23	<0.40	<0.25	<0.23	<0.21	<0.20	0.30	<0.46	<0.17	<0.43
	2/5/2008	(9)	<0.41	<0.93	<0.89	<0.37	0.43 Q	0.95 Q	<0.99	<0.36	<0.83	<0.89	<0.54	<0.59	<0.67	<0.43	<0.74	<0.81	<0.45	<0.67	<0.48	<1.8	<0.18	<2.63
	3/22/2011	--	<0.20	<0.20	<0.25	<0.20	<0.30	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.40	<0.20	<0.50
10/8/2015	--	<0.50	<0.50	<2.2	<2.5	<0.50	<0.50	<0.22	<0.17	<0.26	<0.26	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<0.50	<0.50	<0.33	<1.0	<0.18	<1.5	
6/7/2018	(15)	<0.15	<0.39	<0.40	<0.37	<0.32	<0.49	<0.67	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	<1.6	<0.34	<0.41	<0.37	<0.15	<0.16	<0.61	<0.20	<0.22	
NR 140 Enforcement Standards			5	NE	NE	6	30	60	1,000	5	70	100	700	NE	NE	5	100	NE	5	800	5	480	0.2	2,000
NR 140 Preventive Action Limits			0.5	NE	NE	0.6	3	6	200	0.5	7	20	140	NE	NE	0.5	10	NE	0.5	160	0.5	96	0.02	400

Abbreviations
 µg/L = micrograms per liter or parts per billion (ppb)
 TMBs = 1,2,4- and 1,3,5-trimethylbenzenes
 TMBs = 1,2,4- and 1,3,5-trimethylbenzenes
 NA = Not Analyzed
 NE = Not Established
 -- = Not Applicable
 (Dup) = Duplicate

Table 2. Groundwater Analytical Results Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.71

Notes:

Bold values equal or exceed NR 140 enforcement standards.

Italic values equal or exceed NR 140 preventive action limits.

Only detected compounds and vinyl chloride shown. For complete results, see laboratory reports.

Values in [brackets] represent results greater than or equal to the LOD but less than the LOQ and are within a region of "less-certain quantitation." Results greater than or equal to the LOQ are considered to be in the region of "certain quantitation."

LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

C = Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

C4 = Calibration Verification recovery was below the method control limit for this analyte.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

J = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).

J2 = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Q = The analyte has been detected between the LOD and LOQ. The results are qualified due to the uncertainty of analyte concentrations within this range.

S2 = Compound is a common lab solvent and contaminant.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

& = Laboratory Control Spike recovery not within control limits.

Laboratory Notes:

(1) Hexachlorobutadiene analysis - Calibration Verification recovery was below the method control limit for this analyte.

(2) Bromomethane, 4-chlorotoluene, hexachlorobutadiene and 1,2,3-trichlorobenzene analyses - Calibration Verification recovery was below the method control limit for this analyte.

(3) Surr: Toluene-d8 (91-100%) - Surrogate recovery was below acceptance limits.

(4) Bromomethane analysis - Calibration Verification recovery was below the method control limit for this analyte.

(5) 1,1,2-Trichloroethane was detected in UPUMP MW4 on 11/23/05 at a concentration of 0.91 ug/l (PAL = 0.5 ug/l, ES = 5 ug/l). This compound was not detected in any other site sample.

(6) Styrene - Laboratory Control Spike recovery not within control limits.

(7) Surrogate analysis - This compound is a surrogate used to evaluate the quality control of a method.

(8) Bromodichloromethane was detected at a concentration of [0.29].

(9) Bromomethane - Laboratory Control Spike recovery not within control limits. Chlorodibromomethane was detected at a concentration of 0.95; the analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.

(10) Bromomethane - Laboratory Control Spike recovery not within control limits.

(11) Bromodichloromethane was detected at a concentration of [0.22].

(12) Bromodichloromethane was detected at a concentration of [0.33].

(13) Bromodichloromethane was detected at a concentration of [0.44], and Bromoform at [0.46], and Chlorodibromomethane at [0.71].

(14) Surrogate: 4-Bromofluorobenzene (S) - Post-analysis pH measurement indicates insufficient VOA sample preservation.

(15) Chloroethane = LCS or LCSD is outside acceptance limits.

Created by: LMH Date: 10/4/2002

Last revision by: JSN Date: 6/20/2018

Checked by: LMH Date: 6/20/2018

Table 3. Water Level Summary
2803-2809 University Avenue, Madison, Wisconsin / SCS Engineers Project #25211228.72

Raw Data	Depth to Water in feet below top of well casing																		
	MW1	MW1R	MW2	MW2P	MW3	MW4P	MW5	MW6	MW7	MW8	PZ2	UP MW1	UP MW2	UP MW3	UP MW4	UP MW 5	UP MW6	UP PZ1	
Measurement Date																			
September 6, 2002	28.21	NA	28.42	28.31	NA	28.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NA	
September 17, 2002	29.32	NA	29.84	29.86	29.07	30.26	NA	NA	NA	NA	NA	NM	NM	NM	28.70	NW	NM	NA	
October 16, 2002	29.41	NA	27.73	27.53	29.33	28.09	NA	NA	NA	NA	NA	28.75	NM	27.32	28.44	26.80	26.86	NA	
May 29, 2003	25.86	NA	24.91	24.78	26.05	25.29	NA	NA	NA	NA	NA	25.84	NM	24.96	25.43	NM	NM	NA	
January 21, 2004	25.72	NA	24.63	24.52	26.09	NM	27.52	25.25	NA	NA	NA	25.99	NM	24.71	25.20	23.97	24.13	NA	
May 20, 2004	25.97	NA	25.80	25.81	25.88	26.09	27.57	26.26	29.52	NA	NA	26.63	25.21	25.65	25.39	24.82	24.65	24.93	
May 24, 2005	AB	NA	23.64	23.55	24.78	24.25	26.35	24.40	28.36	29.06	23.62	24.54	23.41	23.84	NM	23.17	22.94	23.66	
August 23, 2005	AB	29.57	28.58	28.61	29.51	28.99	31.06	29.39	32.71	33.50	28.51	29.37	27.81	28.50	29.37	27.59	27.81	28.58	
November 22, 2005	AB	27.29	26.21	26.13	28.01	26.72	29.38	26.98	31.28	32.00	26.10	27.83	25.59	26.27	27.49	25.37	25.57	26.05	
February 7, 2006	AB	26.43	25.58	25.55	26.87	26.11	28.39	26.26	30.43	31.16	25.81	27.15	25.51	25.71	26.49	25.00	NM	NM	
June 27, 2007	AB	26.75	26.09	26.13	26.67	27.17	28.41	26.90	30.36	31.06	26.15	26.83	25.46	25.88	26.61	AB	AB	AB	
October 9, 2007	AB	32.99	32.70	32.74	32.53	33.28	33.55	Dry	Dry	Dry	32.66	Dry	Dry	Dry	Dry	AB	AB	AB	
February 5, 2008	AB	24.59	23.18	23.46	25.20	23.95	26.73	24.20	NM	NM	23.28	NM	NM	NM	24.58	AB	AB	AB	
March 22, 2011	AB	18.19	16.96	16.96	18.98	17.90	20.13	17.53	22.63	23.58	17.82	19.14	17.99	17.61	18.47	AB	AB	AB	
October 8 & 9, 2015	AB	24.61	24.16	24.11	24.79	24.12	25.84	24.14	27.50	28.72	23.79	24.93	23.82	NM	25.02	AB	AB	AB	
June 6, 2018	AB	18.53	16.80	16.80	19.31	17.90	20.86	17.99	23.44	24.19	17.70	19.20	17.44	16.81	18.54	AB	AB	AB	

Well Number Top of Casing Elevation (feet amsl)	Ground Water Elevation in feet above mean sea level (amsl)																		
	MW1	MW1R	MW2	MW2P	MW3	MW4P	MW5	MW6	MW7	MW8	PZ2	UP MW1	UP MW2	UP MW3	UP MW4	UP MW5	UP MW6	UP PZ1	
877.61	877.43	877.38	877.03	877.30	878.45	877.81	879.87	880.56	877.03	876.92	876.92	877.88	877.07	876.59	876.15	876.38			
Measurement Date																			
September 6, 2002	849.40	--	849.01	849.07	--	848.93	--	--	--	--	--	--	--	--	--	--	--	--	
September 17, 2002	848.29	--	847.59	847.52	847.96	847.04	--	--	--	--	--	--	--	--	848.59	--	--	--	
October 16, 2002	848.20	--	849.70	849.85	847.70	849.21	--	--	--	--	--	848.17	--	850.56	848.85	849.79	849.29	--	
May 29, 2003	851.75	--	852.52	852.60	850.98	852.01	--	--	--	--	--	851.08	--	852.92	851.86	--	--	--	
January 21, 2004	851.89	--	852.80	852.86	850.94	--	850.93	852.56	--	--	--	850.93	--	853.17	851.87	852.62	852.02	--	
May 20, 2004	851.64	--	851.63	851.57	851.15	851.21	850.88	851.55	850.35	--	--	850.29	851.71	852.23	851.68	851.77	851.50	851.45	
May 24, 2005	--	--	853.79	853.83	852.25	853.05	852.10	853.41	851.51	851.50	853.41	852.38	853.51	854.04	--	853.42	853.21	852.72	
August 23, 2005	--	--	848.85	848.77	847.52	848.31	847.39	848.42	847.16	847.06	848.52	847.55	849.11	849.38	847.70	849.00	848.34	847.80	
November 22, 2005	--	--	851.22	851.25	849.02	850.58	849.07	850.83	848.59	848.56	850.93	849.09	851.33	851.61	849.58	851.22	850.58	850.33	
February 7, 2006	--	--	851.85	851.83	850.16	851.19	850.06	851.55	849.44	849.40	851.22	849.77	851.41	852.17	850.58	851.59	--	--	
June 27, 2007	--	--	851.34	851.25	850.36	850.13	850.04	850.91	849.51	849.50	850.88	850.09	851.46	852.00	850.46	--	--	--	
October 9, 2007	--	--	844.73	844.64	844.50	844.02	844.90	--	--	--	844.37	--	--	--	--	--	--	--	
February 5, 2008	--	--	854.25	853.92	851.83	853.35	851.72	853.61	--	--	853.75	--	--	--	852.49	--	--	--	
March 22, 2011	--	--	860.47	860.42	858.05	859.40	858.32	860.28	857.24	856.98	859.21	857.78	858.93	860.27	858.60	--	--	--	
October 8 & 9, 2015	--	--	853.27	853.27	852.24	853.18	852.61	853.67	852.37	851.84	853.24	851.99	853.10	--	852.05	--	--	--	
June 6, 2018	--	--	860.63	860.58	857.72	859.40	857.59	859.82	856.43	856.37	859.33	857.72	859.48	861.07	858.53	--	--	--	

Abbreviations:
 NM = Not Measured AB = Well Abandoned
 NA = Well not installed yet UP = Vista U Pump wells

Notes:
 May 2004, May 2005, August 2005, and November 2005 water level measurement events took place over two day periods. Significant rain fell during the May 2004 measurement event.
 Well elevations relative to fire hydrant located at the corner of University and Franklin, elevation is 880.34 feet amsl.
 Upump MW4 elevation was resurveyed during the 1/21/04 sampling event.

Last revision by: JSN Date: 6/8/2018
 Checked by: RL Date: 6/29/2018

I:\2287\Tables-General\[water levels.xls]Water Levels

FIGURES

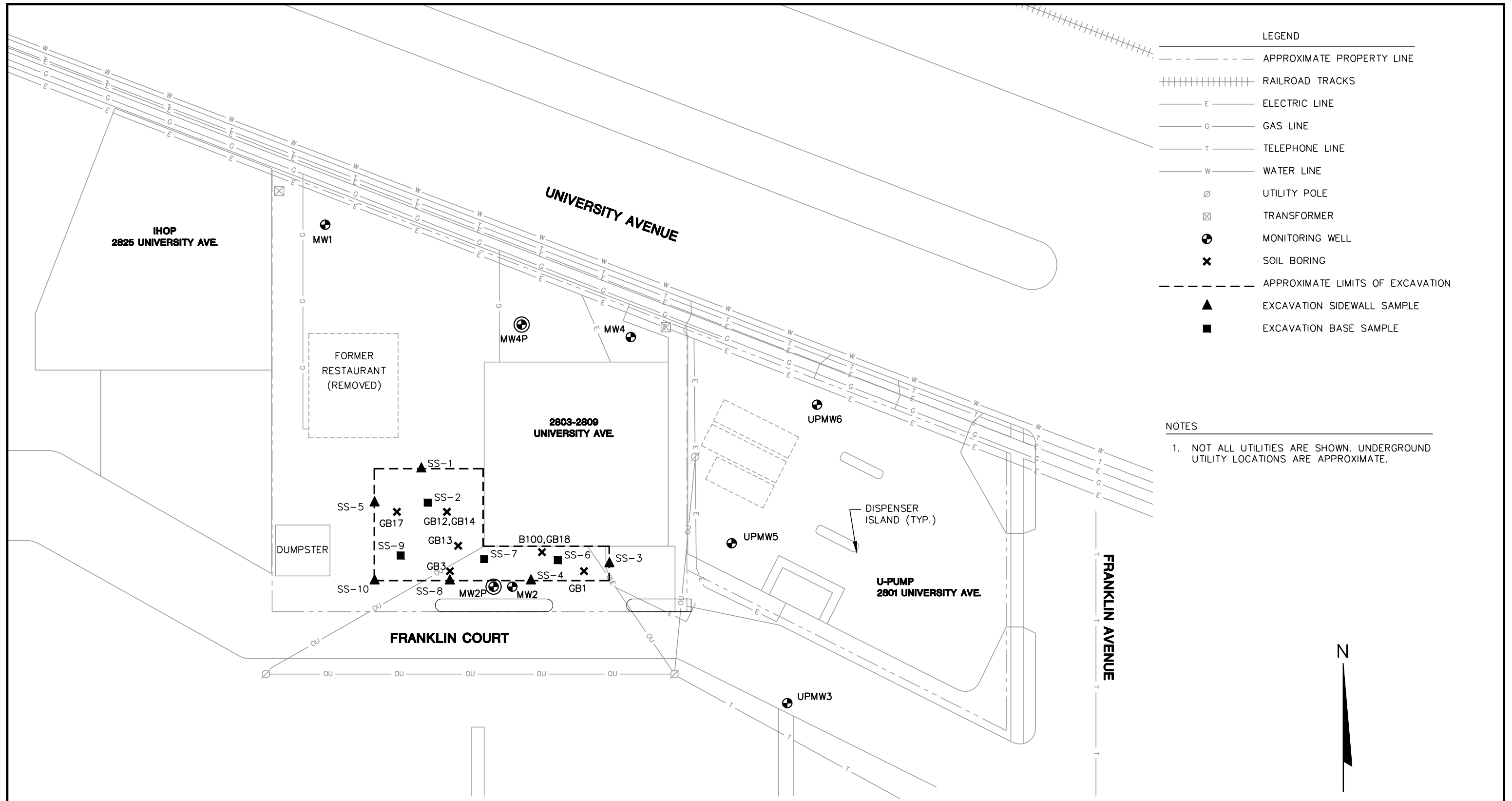
- 1 Site Location Map
- 2 Excavation Area
- 3 Excavation Cross Section
- 4 Water Table Map June 6, 2018



MADISON—WEST QUADRANGLE
 WISCONSIN—DANE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 2015
 SCALE: 1" = 2,000'



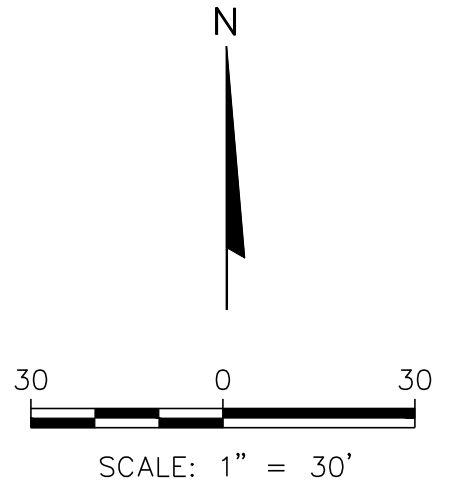
CLIENT	MOM PARTNERSHIP 3934 PARTRIDGE ROAD DEFOREST, WI 53532	SITE	2803—2809 UNIVERSITY AVENUE MADISON, WISCONSIN	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE 1
	PROJECT NO.		25211228.72			
	DRAWN:	09/28/17	CHECKED BY:	DN		
	REVISED:	12/14/17	APPROVED BY:	REL 06/29/18		



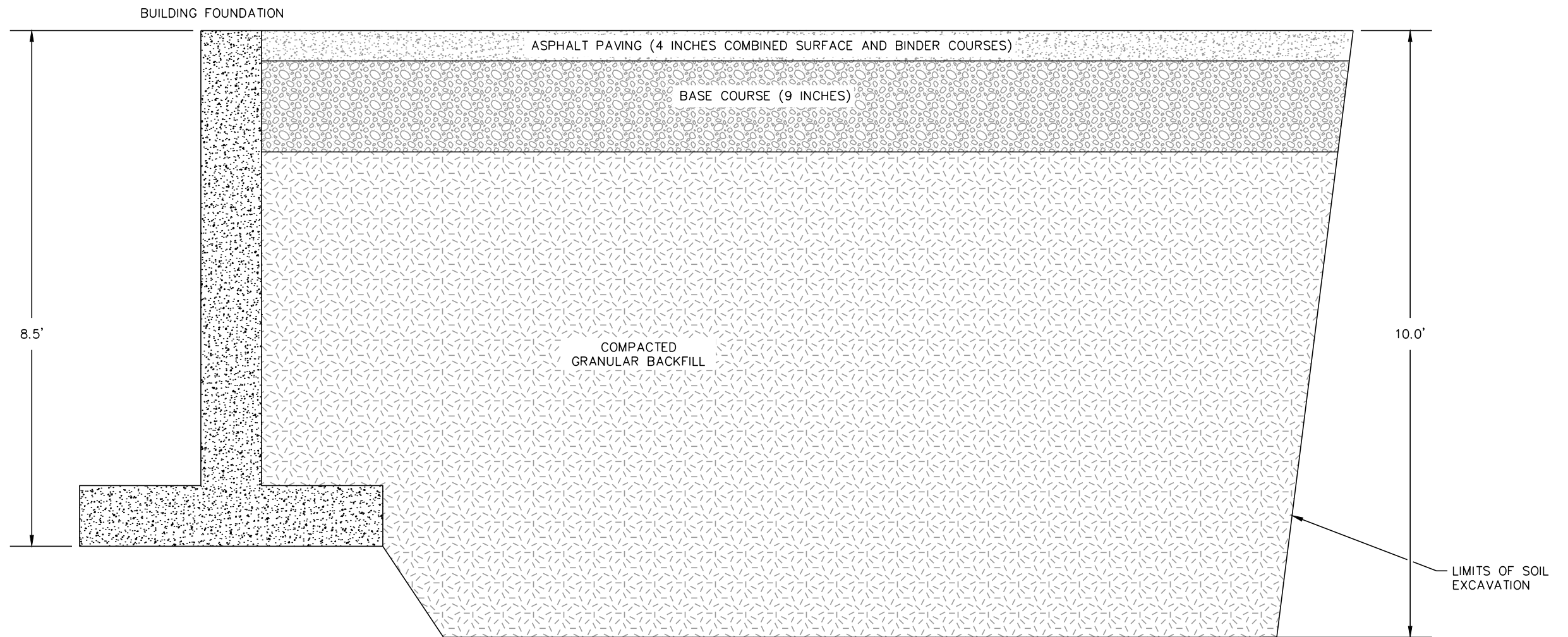
- LEGEND**
- APPROXIMATE PROPERTY LINE
 - +++++ RAILROAD TRACKS
 - E— ELECTRIC LINE
 - G— GAS LINE
 - T— TELEPHONE LINE
 - W— WATER LINE
 - ⊙ UTILITY POLE
 - ⊠ TRANSFORMER
 - ⊕ MONITORING WELL
 - ✕ SOIL BORING
 - APPROXIMATE LIMITS OF EXCAVATION
 - ▲ EXCAVATION SIDEWALL SAMPLE
 - EXCAVATION BASE SAMPLE

NOTES

- NOT ALL UTILITIES ARE SHOWN. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE.

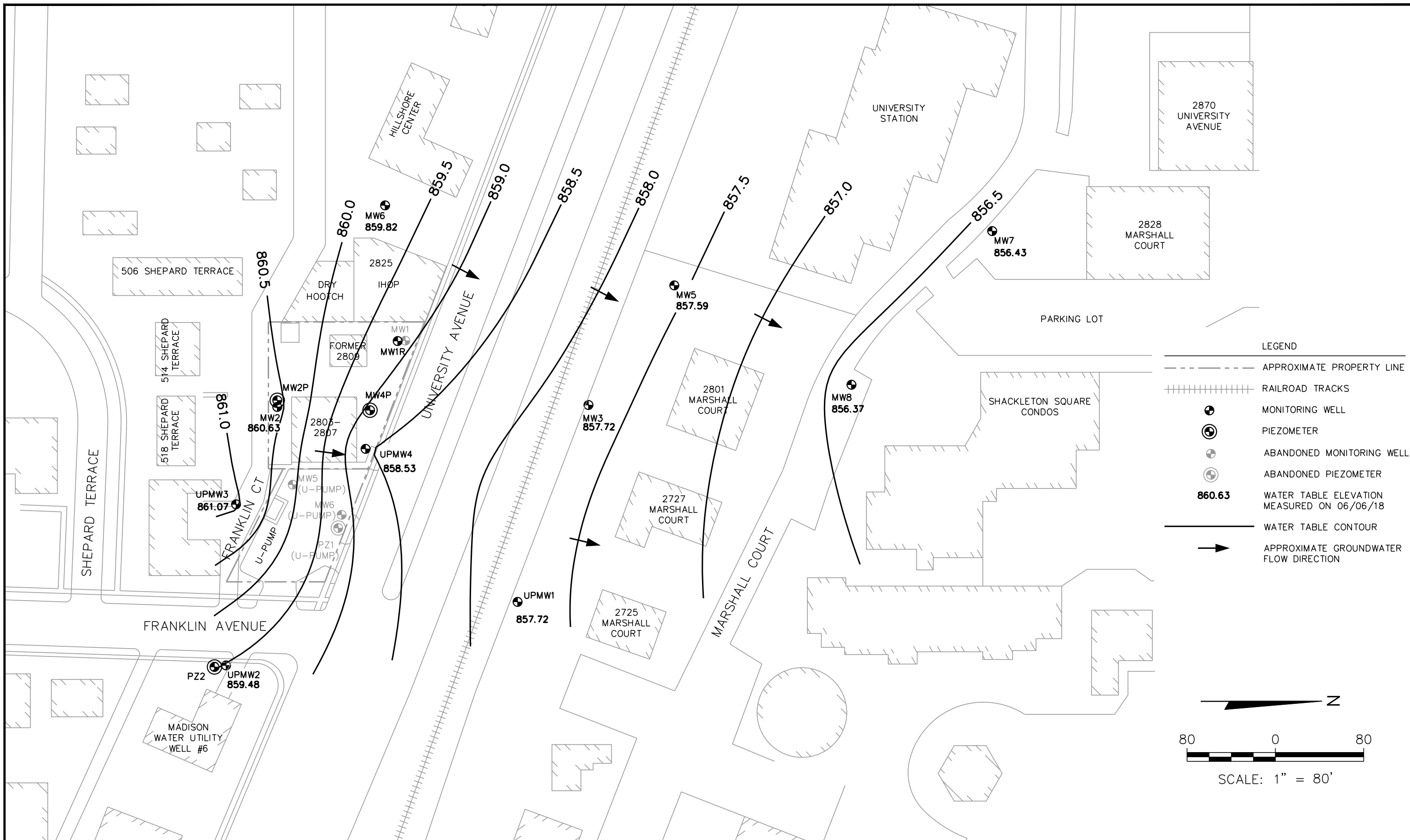


PROJECT NO. 25211228.72	DRAWN BY: BJM	ENGINEER SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT MOM PARTNERSHIP 3934 PARTRIDGE ROAD DEFOREST, WI 53532	SITE 2803-2809 UNIVERSITY AVENUE MADISON, WISCONSIN	EXCAVATION AREA	FIGURE
DRAWN: 09/28/17	CHECKED BY: DN					2
REVISED: 06/29/18	APPROVED BY: REL 06/29/18					



NOT TO SCALE

PROJECT NO.	25211228.72	DRAWN BY:	BJM		CLIENT MOM PARTNERSHIP 3934 PARTRIDGE ROAD DEFOREST, WI 53532	SITE 2803-2809 UNIVERSITY AVENUE MADISON, WISCONSIN	EXCAVATION CROSS SECTION	FIGURE
DRAWN:	09/28/17	CHECKED BY:	DN					3
REVISED:	06/29/18	APPROVED BY:	REL 06/29/18					



PROJECT NO. 25211228.72	DRAWN BY: KP	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT MOM PARTNERSHIP	SITE 2803-2809 UNIVERSITY AVENUE MADISON, WISCONSIN	WATER TABLE MAP JUNE 6, 2018	FIGURE
DRAWN: 06/11/18	CHECKED BY: REL					4
REVISED: 06/29/18	APPROVED BY: REL 06/29/18					

I:\25211228.72\Drawings\WTBL-2018.dwg, 6/29/2018 1:56:27 PM

APPENDIX A

Excavation Photos

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 1: Looking northwest at south side of building on May 18, 2018, prior to excavation. Orange boxes on building wall are survey control points.



Photo 2: Building crack monitor and interior west wall on May 24, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 3: Looking east at west side of building during removal of asphalt on May 21, 2018.



Photo 4: Looking southeast at west side of building during removal of asphalt on May 21, 2018. Orange boxes on wall behind excavator are survey control points.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 5: Looking northeast at excavation along west wall of building on May 21, 2018.



Photo 6: Looking northeast at east end of excavation along southern wall of the building on May 22, 2018. Conduit shown in photo is fiber optic line.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**

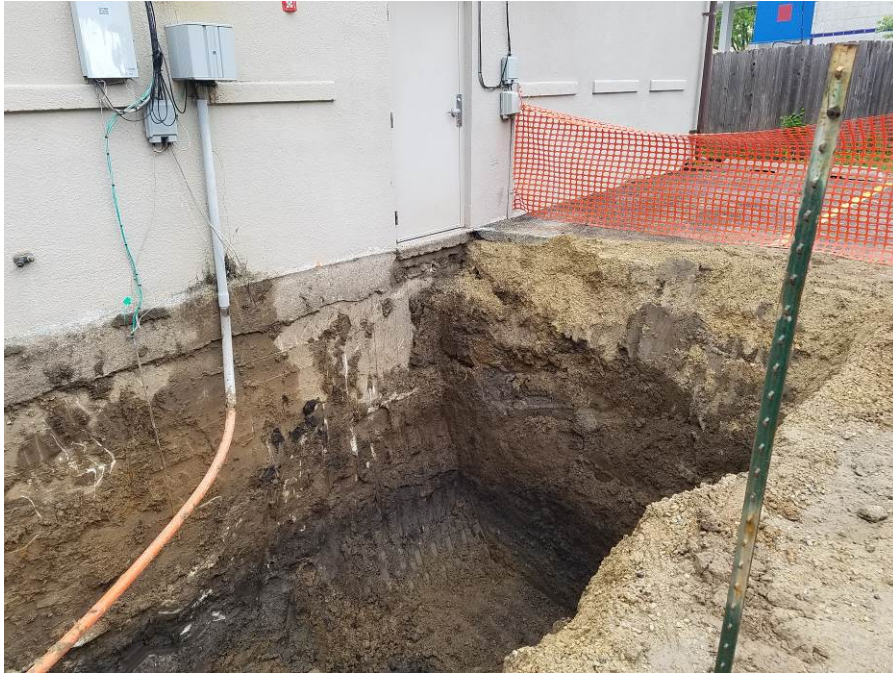


Photo 7: Looking northeast at east end of excavation along southern wall of the building on May 22, 2018.



Photo 8: Looking west at excavation from south wall of building on May 22, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**

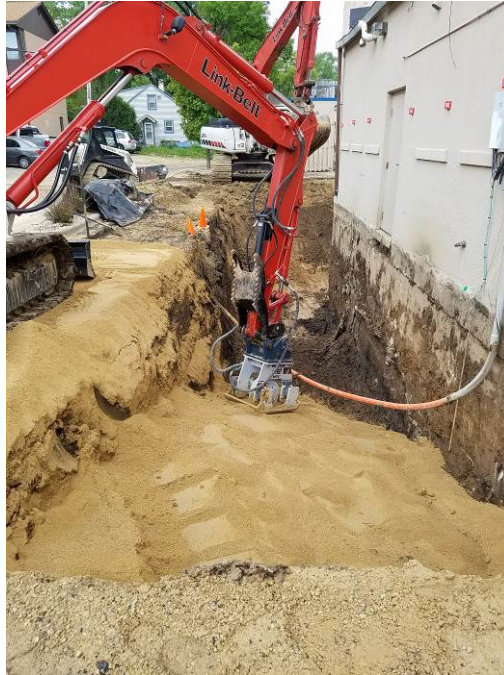


Photo 9: Look west at excavation backfill and compaction along south wall of building on May 22, 2018.



Photo 10: Looking east at backfill and compaction along south wall of building on May 22, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 11: Looking north at backfill from south side of excavation on May 22, 2018.



Photo 12: Looking west at excavation and compaction from west side of excavation area on May 23, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 13: Looking west at base course material from west side of excavation area on May 24, 2018.



Photo 14: Looking west at MW2 and MW2P well casings on May 24, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 15: Looking northeast at base course along west side of building on May 24, 2018.



Photo 16: Looking east at southwest corner of building on May 24, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 17: Looking north at new pavement at south end of building on June 7, 2018.



Photo 18: Looking northwest at new pavement at south end of building on June 7, 2018.

**Excavation Photos
MOM Partnership
SCS Engineers Project #25211228.72**



Photo 19: Looking north at new pavement from south end of property on June 7, 2018.



Photo 20: Looking northeast at new pavement from south side of the property on June 7, 2018. Note property owner paid for the additional base course and pavement beyond that replaced as part of the remedial action.

APPENDIX B

Building Survey Information

2803 University Avenue
 TARGET MONITORING

Date 05/17/2018 2:30 pm by GTA

<u>TARGET</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEVATION</u>	<u>NOTES:</u>
1 EAST	10037.6545	9792.2417	105.8084	
1 WEST	10037.6225	9792.1031	105.7995	
2 EAST	10036.6185	9787.4436	105.9629	
2 WEST	10036.5892	9787.3114	105.9614	
3 EAST	10035.6743	9783.0543	105.6653	
3 WEST	10035.6462	9782.9198	105.657	
4 EAST	10034.7258	9778.628	105.6751	
4 WEST	10034.6984	9778.4938	105.6687	
5 EAST	10032.886	9770.206	105.5774	
5 WEST	10032.8536	9770.0743	105.5679	
6 EAST	10031.8425	9765.3127	105.628	
6 WEST	10031.8101	9765.1783	105.6202	
7 EAST	10030.7971	9760.4442	105.5486	
7 WEST	10030.7391	9760.3511	105.5444	Downspout blocks center of target
8 SOUTH	10032.7484	9757.31	105.4155	
8 NORTH	10032.9078	9757.2905	105.4282	
9 SOUTH	10037.6155	9756.2513	105.4273	
9 NORTH	10037.7719	9756.2329	105.4429	
10 SOUTH	10042.5454	9755.193	105.5286	
10 NORTH	10042.7052	9755.1746	105.5506	
11 SOUTH	10047.4374	9754.14	105.5511	
11 NORTH	10047.5989	9754.125	105.5626	
12 SOUTH				
12 NORTH	10052.4367	9753.108	105.6457	

Date 05/21/2018 2:30 pm by GTA

<u>TARGET</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEVATION</u>	<u>DIFF north</u>	<u>DIFF East</u>	<u>DIFF Elev</u>	<u>Distance Moved From Beginning</u>
1 EAST	10037.6576	9792.2343	105.8049	0.003	-0.007	-0.004	0.008
1 WEST	10037.6296	9792.11	105.8083	0.007	0.007	0.009	0.010
2 EAST	10036.6195	9787.4401	105.9595	0.001	-0.004	-0.003	0.004
2 WEST	10036.5976	9787.3177	105.9679	0.008	0.006	0.007	0.010
3 EAST	10035.6753	9783.0505	105.6597	0.001	-0.004	-0.006	0.004
3 WEST	10035.6521	9782.9291	105.6668	0.006	0.009	0.010	0.011
4 EAST	10034.7262	9778.6251	105.6712	0.000	-0.003	-0.004	0.003
4 WEST	10034.7037	9778.5002	105.6769	0.005	0.006	0.008	0.008
5 EAST	10032.885	9770.2035	105.5742	-0.001	-0.003	-0.003	0.003
5 WEST	10032.8596	9770.0823	105.5759	0.006	0.008	0.008	0.010
6 EAST	10031.8409	9765.3089	105.6259	-0.002	-0.004	-0.002	0.004
6 WEST	10031.8175	9765.1842	105.6276	0.007	0.006	0.007	0.009
7 EAST	10030.7955	9760.441	105.5482	-0.002	-0.003	0.000	0.004
7 WEST	10030.7494	9760.3609	105.5518	0.010	0.010	0.007	0.014
8 SOUTH	10032.7529	9757.3175	105.4251	0.004	0.007	0.010	0.009
8 NORTH	10032.9063	9757.2914	105.4262	-0.002	0.001	-0.002	0.002
9 SOUTH	10037.6171	9756.2588	105.4358	0.002	0.007	0.008	0.008
9 NORTH	10037.7643	9756.2337	105.4406	-0.008	0.001	-0.002	0.008

10 SOUTH	10042.5526	9755.2039	105.5395	0.007	0.011	0.011	0.013
10 NORTH	10042.7034	9755.1724	105.5452	-0.002	-0.002	-0.005	0.003
11 SOUTH	10047.4408	9754.1486	105.5594	0.003	0.009	0.008	0.009
11 NORTH	10047.594	9754.1198	105.5597	-0.005	-0.005	-0.003	0.007
12 SOUTH				0.000	0.000	0.000	0.000
12 NORTH	10052.4262	9753.106	105.6415	-0.011	-0.002	-0.004	0.011

Date 05/22/2018 9:00 am by GTA

<u>TARGET</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEVATION</u>	DIFF <u>north</u>	DIFF <u>East</u>	DIFF <u>Elev</u>	Distance Moved <u>From Beginning</u>
1 EAST	10037.6542	9792.2444	105.7992	0.000	0.003	-0.009	0.003
1 WEST	10037.6257	9792.1063	105.8021	0.003	0.003	0.003	0.005
2 EAST	10036.6187	9787.4441	105.9539	0.000	0.001	-0.009	0.001
2 WEST	10036.5878	9787.3123	105.9632	-0.001	0.001	0.002	0.002
3 EAST	10035.6729	9783.0541	105.6563	-0.001	0.000	-0.009	0.001
3 WEST	10035.6425	9782.9223	105.6615	-0.004	0.003	0.005	0.004
4 EAST	10034.7237	9778.6326	105.6659	-0.002	0.005	-0.009	0.005
4 WEST	10034.6953	9778.494	105.6714	-0.003	0.000	0.003	0.003
5 EAST	10032.8846	9770.2075	105.5687	-0.001	0.002	-0.009	0.002
5 WEST	10032.8537	9770.0766	105.5731	0.000	0.002	0.005	0.002
6 EAST	10031.8401	9765.3155	105.6188	-0.002	0.003	-0.009	0.004
6 WEST	10031.8098	9765.1811	105.6238	0.000	0.003	0.004	0.003
7 EAST	10030.7972	9760.4434	105.5421	0.000	-0.001	-0.006	0.001
7 WEST	10030.7464	9760.3595	105.5467	0.007	0.008	0.002	0.011
8 SOUTH	10032.7456	9757.3137	105.4189	-0.003	0.004	0.003	0.005
8 NORTH	10032.9029	9757.2829	105.4279	-0.005	-0.008	0.000	0.009
9 SOUTH	10037.6104	9756.2565	105.4296	-0.005	0.005	0.002	0.007
9 NORTH	10037.7707	9756.2233	105.4426	-0.001	-0.010	0.000	0.010
10 SOUTH	10042.5431	9755.2003	105.5336	-0.002	0.007	0.005	0.008
10 NORTH	10042.7043	9755.1664	105.5485	-0.001	-0.008	-0.002	0.008
11 SOUTH	10047.4336	9754.1487	105.5544	-0.004	0.009	0.003	0.009
11 NORTH	10047.5934	9754.1135	105.5615	-0.006	-0.012	-0.001	0.013
12 SOUTH				0.000	0.000	0.000	0.000
12 NORTH	10052.4296	9753.0983	105.6432	-0.007	-0.010	-0.003	0.012

Date 05/22/2018 2:30 pm by GTA

<u>TARGET</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>ELEVATION</u>	DIFF <u>north</u>	DIFF <u>East</u>	DIFF <u>Elev</u>	Distance Moved From Beginning
1 EAST	10037.6581	9792.2445	105.8066	0.004	0.003	-0.002	0.005
1 WEST	10037.6293	9792.1026	105.7934	0.007	-0.001	-0.006	0.007
2 EAST	10036.6211	9787.4496	105.9616	0.003	0.006	-0.001	0.007
2 WEST	10036.5916	9787.3091	105.9538	0.002	-0.002	-0.008	0.003
3 EAST	10035.6769	9783.0592	105.6654	0.003	0.005	0.000	0.006
3 WEST	10035.6446	9782.9202	105.6525	-0.002	0.000	-0.004	0.002
4 EAST	10034.7278	9778.6347	105.6739	0.002	0.007	-0.001	0.007
4 WEST	10034.6981	9778.4928	105.6609	0.000	-0.001	-0.008	0.001
5 EAST	10032.8871	9770.2136	105.5751	0.001	0.008	-0.002	0.008
5 WEST	10032.8558	9770.0737	105.5621	0.002	-0.001	-0.006	0.002
6 EAST	10031.8446	9765.3178	105.6283	0.002	0.005	0.000	0.006
6 WEST	10031.8117	9765.1765	105.6125	0.002	-0.002	-0.008	0.002
7 EAST	10030.7996	9760.4458	105.5509	0.003	0.002	0.002	0.003
7 WEST							
8 SOUTH	10032.7436	9757.3098	105.4077	-0.005	0.000	-0.008	0.005
8 NORTH	10032.904	9757.2835	105.4295	-0.004	-0.007	0.001	0.008
9 SOUTH	10037.61	9756.2535	105.4206	-0.005	0.002	-0.007	0.006
9 NORTH	10037.7692	9756.2252	105.4446	-0.003	-0.008	0.002	0.008
10 SOUTH	10042.5378	9755.1934	105.5235	-0.008	0.000	-0.005	0.008
10 NORTH	10042.7025	9755.1657	105.5508	-0.003	-0.009	0.000	0.009
11 SOUTH	10047.4336	9754.1457	105.5431	-0.004	0.006	-0.008	0.007
11 NORTH	10047.5922	9754.1141	105.5644	-0.007	-0.011	0.002	0.013
12 SOUTH	10052.268	9753.1275	105.6242				
12 NORTH	10052.4298	9753.0982	105.6473	-0.007	-0.010	0.002	0.012

APPENDIX C

Waste Disposal Documentation

Customer Summary Report (legal)**Criteria: 05/01/2018 12:00 AM to 06/01/2018 11:59 PM****Business Unit Name: S04834 - Madison Prairie Landfill (USA)****User: lolson****Date: Jun 13 2018, 10:16:08 AM****Profile: V129284WI**

Ticket Date	Ticket ID	Customer	Generator Manifest	Truck	Tons
5/21/2018	360444	FINDLAY PARTNERSHIP	148-MOMF 6807059	67	22.67
5/21/2018	360448	FINDLAY PARTNERSHIP	148-MOMF 6807060	72	24.76
5/21/2018	360449	FINDLAY PARTNERSHIP	148-MOMF 6807061	71	18.81
5/21/2018	360454	FINDLAY PARTNERSHIP	148-MOMF 6807062	67	23.08
5/21/2018	360461	FINDLAY PARTNERSHIP	148-MOMF 6807064	72	22.68
5/21/2018	360463	FINDLAY PARTNERSHIP	148-MOMF 6807063	71	19.93
5/21/2018	360469	FINDLAY PARTNERSHIP	148-MOMF 6807065	67	21.90
5/21/2018	360470	FINDLAY PARTNERSHIP	148-MOMF 6807066	95	20.70
5/21/2018	360479	FINDLAY PARTNERSHIP	148-MOMF 6807068	72	24.06
5/21/2018	360480	FINDLAY PARTNERSHIP	148-MOMF 6807067	71	22.47
5/21/2018	360481	FINDLAY PARTNERSHIP	148-MOMF 6807069	67	22.35
5/21/2018	360485	FINDLAY PARTNERSHIP	148-MOMF 6807070	95	22.35
5/21/2018	360487	FINDLAY PARTNERSHIP	148-MOMF 6807071	72	25.04
5/21/2018	360488	FINDLAY PARTNERSHIP	148-MOMF 6807072	67	21.84
5/21/2018	360490	FINDLAY PARTNERSHIP	148-MOMF 6807073	71	16.37
5/21/2018	360493	FINDLAY PARTNERSHIP	148-MOMF 6807074	95	23.45
5/21/2018	360495	FINDLAY PARTNERSHIP	148-MOMF 6807075	72	22.39
5/21/2018	360496	FINDLAY PARTNERSHIP	148-MOMF 6807076	67	22.38
5/21/2018	360498	FINDLAY PARTNERSHIP	148-MOMF 6807077	71	20.05
5/22/2018	360501	FINDLAY PARTNERSHIP	148-MOMF 6807078	69	21.52
5/22/2018	360502	FINDLAY PARTNERSHIP	148-MOMF 6807079	95	21.55
5/22/2018	360503	FINDLAY PARTNERSHIP	148-MOMF 6807080	67	21.12
5/22/2018	360505	FINDLAY PARTNERSHIP	148-MOMF 6807081	72	21.53
5/22/2018	360507	FINDLAY PARTNERSHIP	148-MOMF 6807082	71	16.90
5/22/2018	360513	FINDLAY PARTNERSHIP	148-MOMF 6807083	69	23.13
5/22/2018	360516	FINDLAY PARTNERSHIP	148-MOMF 6807084	95	19.16
5/22/2018	360517	FINDLAY PARTNERSHIP	148-MOMF 6807085	67	21.78
5/22/2018	360518	FINDLAY PARTNERSHIP	148-MOMF 6807086	72	23.30
5/22/2018	360519	FINDLAY PARTNERSHIP	148-MOMF 6807087	71	21.25
5/22/2018	360524	FINDLAY PARTNERSHIP	148-MOMF 6807088	95	23.16
5/22/2018	360527	FINDLAY PARTNERSHIP	148-MOMF 6807089	69	21.98
5/22/2018	360530	FINDLAY PARTNERSHIP	148-MOMF 6807090	67	23.55
5/22/2018	360533	FINDLAY PARTNERSHIP	148-MOMF 6807091	71	21.92
5/22/2018	360534	FINDLAY PARTNERSHIP	148-MOMF 68077092	72	25.46
5/22/2018	360540	FINDLAY PARTNERSHIP	148-MOMF 6807093	95	20.28
5/22/2018	360545	FINDLAY PARTNERSHIP	148-MOMF 6807094	71	21.73
5/22/2018	360546	FINDLAY PARTNERSHIP	148-MOMF 6807095	67	22.58

5/22/2018	360548	FINDLAY PARTNERSHIP	148-MOMF 6807096	72	20.38
5/22/2018	360557	FINDLAY PARTNERSHIP	148-MOMF 6807097	69	23.29
5/22/2018	360559	FINDLAY PARTNERSHIP	148-MOMF 6807098	95	21.68
5/22/2018	360560	FINDLAY PARTNERSHIP	148-MOMF 6807099	71	17.20
5/22/2018	360562	FINDLAY PARTNERSHIP	148-MOMF 6807100	67	23.65
5/22/2018	360564	FINDLAY PARTNERSHIP	148-MOMF 6807101	72	21.30
Ticket Totals		44			936.68

APPENDIX D

Soil Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-145846-1

Client Project/Site: 2803-2807 University Ave - 285211228.72

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon



Authorized for release by:
6/4/2018 3:10:47 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Job ID: 500-145846-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-145846-1

Comments

No additional comments.

Receipt

The samples were received on 5/23/2018 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

GC/MS VOA

Method(s) 8260B: The method blank for batch 434732 was non-detect for all target analytes. Samples associated with this method blank detected Methylene Chloride just below the reporting limit. Methylene Chloride is a known lab contaminant; therefore all low level detects for this compound should be considered lab contamination. The results have been flagged with a "CN" to denote the probable contamination. SS-1 (3') (500-145846-1), SS-2 (10') (500-145846-2), SS-3 (3') (500-145846-3) and SS-4 (3') (500-145846-4)

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

Metals

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

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Detection Summary

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-1 (3')

Lab Sample ID: 500-145846-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	75		17	10	ug/Kg	50	☼	8260B	Total/NA
Methylene Chloride	220	J cn	340	110	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	160		68	25	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SS-2 (10')

Lab Sample ID: 500-145846-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		14	8.1	ug/Kg	50	☼	8260B	Total/NA
Methylene Chloride	140	J cn	280	90	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SS-3 (3')

Lab Sample ID: 500-145846-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	200	J cn	370	120	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SS-4 (3')

Lab Sample ID: 500-145846-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	370		80	32	ug/Kg	50	☼	8260B	Total/NA
Methylene Chloride	210	J cn	400	130	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	260		80	29	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	260		40	13	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SS-5 (5')

Lab Sample ID: 500-145846-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	280	*	76	28	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SS-6 (10')

Lab Sample ID: 500-145846-6

No Detections.

Client Sample ID: SS-7 (10')

Lab Sample ID: 500-145846-7

No Detections.

Client Sample ID: SS-8 (5')

Lab Sample ID: 500-145846-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	930	*	74	28	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: SS-9 (10')

Lab Sample ID: 500-145846-9

No Detections.

Client Sample ID: SS-10 (10')

Lab Sample ID: 500-145846-10

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 500-145846-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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



Sample Summary

Client: SCS Engineers

TestAmerica Job ID: 500-145846-1

Project/Site: 2803-2807 University Ave - 285211228.72

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-145846-1	SS-1 (3')	Solid	05/21/18 11:20	05/23/18 09:20
500-145846-2	SS-2 (10')	Solid	05/21/18 11:30	05/23/18 09:20
500-145846-3	SS-3 (3')	Solid	05/21/18 11:50	05/23/18 09:20
500-145846-4	SS-4 (3')	Solid	05/21/18 13:30	05/23/18 09:20
500-145846-5	SS-5 (5')	Solid	05/22/18 08:00	05/23/18 09:20
500-145846-6	SS-6 (10')	Solid	05/22/18 08:40	05/23/18 09:20
500-145846-7	SS-7 (10')	Solid	05/22/18 10:40	05/23/18 09:20
500-145846-8	SS-8 (5')	Solid	05/22/18 11:00	05/23/18 09:20
500-145846-9	SS-9 (10')	Solid	05/22/18 12:30	05/23/18 09:20
500-145846-10	SS-10 (10')	Solid	05/22/18 14:15	05/23/18 09:20
500-145846-11	Trip Blank	Solid	05/21/18 00:00	05/23/18 09:20

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-1 (3')

Lab Sample ID: 500-145846-1

Date Collected: 05/21/18 11:20

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	75		17	10	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Bromobenzene	<24		68	24	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Bromochloromethane	<29		68	29	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Bromoform	<33		68	33	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Bromomethane	<54 *		140	54	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Chlorobenzene	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Chloroethane	<34		68	34	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Chloroform	<25		140	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Chloromethane	<22		68	22	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Dibromomethane	<18		68	18	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Dichlorodifluoromethane	<46 *		140	46	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Ethylbenzene	<12		17	12	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Isopropyl ether	<19		68	19	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Methylene Chloride	220 J cn		340	110	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Naphthalene	<23		68	23	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
sec-Butylbenzene	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Styrene	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1,1,2-Tetrachloroethane	<32		68	32	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Tetrachloroethene	160		68	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Toluene	<10		17	10	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-1 (3')

Date Collected: 05/21/18 11:20

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-1

Matrix: Solid

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Trichloroethene	<11		34	11	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2,3-Trichloropropane	<28		68	28	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Vinyl chloride	<18		68	18	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Xylenes, Total	<15		34	15	ug/Kg	☼	05/21/18 11:20	05/31/18 18:29	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		72 - 124				05/21/18 11:20	05/31/18 18:29	50
Dibromofluoromethane	100		75 - 120				05/21/18 11:20	05/31/18 18:29	50
1,2-Dichloroethane-d4 (Surr)	101		75 - 126				05/21/18 11:20	05/31/18 18:29	50
Toluene-d8 (Surr)	92		75 - 120				05/21/18 11:20	05/31/18 18:29	50

Client Sample ID: SS-2 (10')

Date Collected: 05/21/18 11:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-2

Matrix: Solid

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17		14	8.1	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Bromobenzene	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Bromochloromethane	<24		55	24	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Bromodichloromethane	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Bromoform	<27		55	27	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Bromomethane	<44 *		110	44	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Carbon tetrachloride	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Chlorobenzene	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Chloroethane	<28		55	28	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Chloroform	<20		110	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Chloromethane	<18		55	18	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
4-Chlorotoluene	<19		55	19	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
cis-1,2-Dichloroethene	<23		55	23	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Dibromochloromethane	<27		55	27	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2-Dibromoethane	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Dibromomethane	<15		55	15	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2-Dichlorobenzene	<18		55	18	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Dichlorodifluoromethane	<37 *		110	37	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1-Dichloroethane	<23		55	23	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2-Dichloroethane	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1-Dichloroethene	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-2 (10')

Date Collected: 05/21/18 11:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-2

Matrix: Solid

Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<24		55	24	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
2,2-Dichloropropane	<25		55	25	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1-Dichloropropene	<16		55	16	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Ethylbenzene	<10		14	10	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Hexachlorobutadiene	<25		55	25	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Isopropyl ether	<15		55	15	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Methylene Chloride	140	J cn	280	90	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Methyl tert-butyl ether	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Naphthalene	<18		55	18	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
n-Butylbenzene	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
p-Isopropyltoluene	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
sec-Butylbenzene	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Styrene	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
tert-Butylbenzene	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1,1,2-Tetrachloroethane	<26		55	26	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Tetrachloroethene	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Toluene	<8.1		14	8.1	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
trans-1,2-Dichloroethene	<19		55	19	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1,1-Trichloroethane	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,1,2-Trichloroethane	<19		55	19	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Trichloroethene	<9.1		28	9.1	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Trichlorofluoromethane	<24		55	24	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2,3-Trichloropropane	<23		55	23	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,2,4-Trimethylbenzene	<20		55	20	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
1,3,5-Trimethylbenzene	<21		55	21	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Vinyl chloride	<14		55	14	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50
Xylenes, Total	<12		28	12	ug/Kg	☼	05/21/18 11:30	05/31/18 18:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124	05/21/18 11:30	05/31/18 18:56	50
Dibromofluoromethane	98		75 - 120	05/21/18 11:30	05/31/18 18:56	50
1,2-Dichloroethane-d4 (Surr)	98		75 - 126	05/21/18 11:30	05/31/18 18:56	50
Toluene-d8 (Surr)	90		75 - 120	05/21/18 11:30	05/31/18 18:56	50

Client Sample ID: SS-3 (3')

Date Collected: 05/21/18 11:50

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-3

Matrix: Solid

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		18	11	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Bromobenzene	<26		73	26	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Bromochloromethane	<31		73	31	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-3 (3')

Lab Sample ID: 500-145846-3

Date Collected: 05/21/18 11:50

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<27		73	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Bromoform	<35		73	35	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Bromomethane	<58	*	150	58	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Carbon tetrachloride	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Chlorobenzene	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Chloroethane	<37		73	37	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Chloroform	<27		150	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Chloromethane	<23		73	23	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
2-Chlorotoluene	<23		73	23	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
4-Chlorotoluene	<26		73	26	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
cis-1,2-Dichloroethene	<30		73	30	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
cis-1,3-Dichloropropene	<30		73	30	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Dibromochloromethane	<36		73	36	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2-Dibromoethane	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Dibromomethane	<20		73	20	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2-Dichlorobenzene	<24		73	24	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,3-Dichlorobenzene	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,4-Dichlorobenzene	<27		73	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Dichlorodifluoromethane	<49	*	150	49	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,1-Dichloroethane	<30		73	30	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2-Dichloroethane	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,1-Dichloroethene	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2-Dichloropropane	<31		73	31	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,3-Dichloropropane	<27		73	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
2,2-Dichloropropane	<33		73	33	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,1-Dichloropropene	<22		73	22	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Ethylbenzene	<13		18	13	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Hexachlorobutadiene	<33		73	33	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Isopropylbenzene	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Isopropyl ether	<20		73	20	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Methylene Chloride	200	J cn	370	120	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Methyl tert-butyl ether	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Naphthalene	<24		73	24	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
n-Butylbenzene	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
N-Propylbenzene	<30		73	30	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
p-Isopropyltoluene	<27		73	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
sec-Butylbenzene	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Styrene	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
tert-Butylbenzene	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,1,1,2-Tetrachloroethane	<34		73	34	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,1,2,2-Tetrachloroethane	<29		73	29	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Toluene	<11		18	11	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
trans-1,2-Dichloroethene	<26		73	26	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
trans-1,3-Dichloropropene	<27		73	27	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2,3-Trichlorobenzene	<34		73	34	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2,4-Trichlorobenzene	<25		73	25	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,1,1-Trichloroethane	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-3 (3')

Date Collected: 05/21/18 11:50

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-3

Matrix: Solid

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<26		73	26	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Trichloroethene	<12		37	12	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Trichlorofluoromethane	<31		73	31	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2,3-Trichloropropane	<30		73	30	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,2,4-Trimethylbenzene	<26		73	26	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
1,3,5-Trimethylbenzene	<28		73	28	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Vinyl chloride	<19		73	19	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/21/18 11:50	05/31/18 19:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124	05/21/18 11:50	05/31/18 19:22	50
Dibromofluoromethane	100		75 - 120	05/21/18 11:50	05/31/18 19:22	50
1,2-Dichloroethane-d4 (Surr)	101		75 - 126	05/21/18 11:50	05/31/18 19:22	50
Toluene-d8 (Surr)	88		75 - 120	05/21/18 11:50	05/31/18 19:22	50

Client Sample ID: SS-4 (3')

Date Collected: 05/21/18 13:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-4

Matrix: Solid

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<12		20	12	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Bromobenzene	<28		80	28	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Bromochloromethane	<34		80	34	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Bromodichloromethane	<30		80	30	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Bromoform	<38		80	38	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Bromomethane	<63 *		160	63	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Carbon tetrachloride	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Chlorobenzene	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Chloroethane	<40		80	40	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Chloroform	<29		160	29	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Chloromethane	<25		80	25	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
2-Chlorotoluene	<25		80	25	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
4-Chlorotoluene	<28		80	28	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
cis-1,2-Dichloroethene	370		80	32	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
cis-1,3-Dichloropropene	<33		80	33	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Dibromochloromethane	<39		80	39	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2-Dibromo-3-Chloropropane	<160		400	160	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2-Dibromoethane	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Dibromomethane	<21		80	21	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2-Dichlorobenzene	<27		80	27	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,3-Dichlorobenzene	<32		80	32	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,4-Dichlorobenzene	<29		80	29	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Dichlorodifluoromethane	<54 *		160	54	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,1-Dichloroethane	<33		80	33	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2-Dichloroethane	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,1-Dichloroethene	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2-Dichloropropane	<34		80	34	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,3-Dichloropropane	<29		80	29	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
2,2-Dichloropropane	<35		80	35	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-4 (3')

Date Collected: 05/21/18 13:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-4

Matrix: Solid

Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<24		80	24	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Ethylbenzene	<15		20	15	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Hexachlorobutadiene	<35		80	35	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Isopropylbenzene	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Isopropyl ether	<22		80	22	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Methylene Chloride	210	J cn	400	130	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Methyl tert-butyl ether	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Naphthalene	<27		80	27	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
n-Butylbenzene	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
N-Propylbenzene	<33		80	33	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
p-Isopropyltoluene	<29		80	29	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
sec-Butylbenzene	<32		80	32	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Styrene	<31		80	31	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
tert-Butylbenzene	<32		80	32	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,1,1,2-Tetrachloroethane	<37		80	37	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,1,1,2-Tetrachloroethane	<32		80	32	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Tetrachloroethene	260		80	29	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Toluene	<12		20	12	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
trans-1,2-Dichloroethene	<28		80	28	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
trans-1,3-Dichloropropene	<29		80	29	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2,3-Trichlorobenzene	<36		80	36	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2,4-Trichlorobenzene	<27		80	27	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,1,1-Trichloroethane	<30		80	30	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,1,2-Trichloroethane	<28		80	28	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Trichloroethene	260		40	13	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Trichlorofluoromethane	<34		80	34	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2,3-Trichloropropane	<33		80	33	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,2,4-Trimethylbenzene	<28		80	28	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
1,3,5-Trimethylbenzene	<30		80	30	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Vinyl chloride	<21		80	21	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50
Xylenes, Total	<17		40	17	ug/Kg	☼	05/21/18 13:30	05/31/18 19:49	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124	05/21/18 13:30	05/31/18 19:49	50
Dibromofluoromethane	100		75 - 120	05/21/18 13:30	05/31/18 19:49	50
1,2-Dichloroethane-d4 (Surr)	100		75 - 126	05/21/18 13:30	05/31/18 19:49	50
Toluene-d8 (Surr)	91		75 - 120	05/21/18 13:30	05/31/18 19:49	50

Client Sample ID: SS-5 (5')

Date Collected: 05/22/18 08:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-5

Matrix: Solid

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Bromobenzene	<27		76	27	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Bromochloromethane	<32		76	32	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Bromodichloromethane	<28		76	28	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Bromoform	<37		76	37	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Bromomethane	<60 *		150	60	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-5 (5')

Lab Sample ID: 500-145846-5

Date Collected: 05/22/18 08:00

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<29	*	76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Chlorobenzene	<29		76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Chloroethane	<38	*	76	38	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Chloroform	<28		150	28	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Chloromethane	<24		76	24	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
2-Chlorotoluene	<24		76	24	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
4-Chlorotoluene	<26		76	26	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
cis-1,2-Dichloroethene	<31		76	31	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
cis-1,3-Dichloropropene	<31		76	31	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Dibromochloromethane	<37		76	37	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2-Dibromoethane	<29		76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Dibromomethane	<20		76	20	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2-Dichlorobenzene	<25		76	25	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,3-Dichlorobenzene	<30		76	30	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,4-Dichlorobenzene	<28		76	28	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Dichlorodifluoromethane	<51	*	150	51	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1-Dichloroethane	<31		76	31	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2-Dichloroethane	<30		76	30	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1-Dichloroethene	<29	*	76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2-Dichloropropane	<32		76	32	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,3-Dichloropropane	<27		76	27	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
2,2-Dichloropropane	<34		76	34	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1-Dichloropropene	<23	*	76	23	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Ethylbenzene	<14	*	19	14	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Hexachlorobutadiene	<34		76	34	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Isopropylbenzene	<29		76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Isopropyl ether	<21		76	21	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Methylene Chloride	<120		380	120	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Methyl tert-butyl ether	<30		76	30	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Naphthalene	<25		76	25	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
n-Butylbenzene	<29		76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
N-Propylbenzene	<31		76	31	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
p-Isopropyltoluene	<27		76	27	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
sec-Butylbenzene	<30		76	30	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Styrene	<29		76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
tert-Butylbenzene	<30		76	30	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1,1,2-Tetrachloroethane	<35		76	35	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1,2,2-Tetrachloroethane	<30		76	30	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Tetrachloroethene	280	*	76	28	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Toluene	<11		19	11	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
trans-1,2-Dichloroethene	<26	*	76	26	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
trans-1,3-Dichloropropene	<27		76	27	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2,3-Trichlorobenzene	<35		76	35	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2,4-Trichlorobenzene	<26		76	26	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1,1-Trichloroethane	<29	*	76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,1,2-Trichloroethane	<27		76	27	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Trichloroethene	<12	*	38	12	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Trichlorofluoromethane	<32	*	76	32	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-5 (5')

Date Collected: 05/22/18 08:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-5

Matrix: Solid

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<31		76	31	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,2,4-Trimethylbenzene	<27		76	27	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
1,3,5-Trimethylbenzene	<29		76	29	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Vinyl chloride	<20		76	20	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50
Xylenes, Total	<17		38	17	ug/Kg	☼	05/22/18 08:00	06/01/18 11:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124	05/22/18 08:00	06/01/18 11:48	50
Dibromofluoromethane	102		75 - 120	05/22/18 08:00	06/01/18 11:48	50
1,2-Dichloroethane-d4 (Surr)	101		75 - 126	05/22/18 08:00	06/01/18 11:48	50
Toluene-d8 (Surr)	89		75 - 120	05/22/18 08:00	06/01/18 11:48	50

Client Sample ID: SS-6 (10')

Date Collected: 05/22/18 08:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-6

Matrix: Solid

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.4		16	9.4	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Bromobenzene	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Bromochloromethane	<28		65	28	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Bromodichloromethane	<24		65	24	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Bromoform	<31		65	31	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Bromomethane	<51 *		130	51	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Carbon tetrachloride	<25 *		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Chlorobenzene	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Chloroethane	<33 *		65	33	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Chloroform	<24		130	24	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Chloromethane	<21		65	21	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
cis-1,2-Dichloroethene	<26		65	26	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Dibromochloromethane	<32		65	32	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Dibromomethane	<17		65	17	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,4-Dichlorobenzene	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Dichlorodifluoromethane	<44 *		130	44	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1-Dichloroethane	<26		65	26	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2-Dichloroethane	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1-Dichloroethene	<25 *		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,3-Dichloropropane	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1-Dichloropropene	<19 *		65	19	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Ethylbenzene	<12 *		16	12	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-6 (10')

Date Collected: 05/22/18 08:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-6

Matrix: Solid

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Isopropyl ether	<18		65	18	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Methylene Chloride	<110		320	110	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Methyl tert-butyl ether	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Naphthalene	<22		65	22	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
n-Butylbenzene	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
p-Isopropyltoluene	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
sec-Butylbenzene	<26		65	26	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Styrene	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Tetrachloroethene	<24 *		65	24	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Toluene	<9.5		16	9.5	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
trans-1,2-Dichloroethene	<23 *		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
trans-1,3-Dichloropropene	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1,1-Trichloroethane	<25 *		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Trichloroethene	<11 *		32	11	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Trichlorofluoromethane	<28 *		65	28	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Vinyl chloride	<17		65	17	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50
Xylenes, Total	<14		32	14	ug/Kg	☼	05/22/18 08:40	06/01/18 12:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124	05/22/18 08:40	06/01/18 12:17	50
Dibromofluoromethane	102		75 - 120	05/22/18 08:40	06/01/18 12:17	50
1,2-Dichloroethane-d4 (Surr)	99		75 - 126	05/22/18 08:40	06/01/18 12:17	50
Toluene-d8 (Surr)	90		75 - 120	05/22/18 08:40	06/01/18 12:17	50

Client Sample ID: SS-7 (10')

Date Collected: 05/22/18 10:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-7

Matrix: Solid

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.3		14	8.3	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Bromobenzene	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Bromochloromethane	<24		57	24	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Bromodichloromethane	<21		57	21	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Bromoform	<27		57	27	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Bromomethane	<45 *		110	45	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Carbon tetrachloride	<22 *		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Chlorobenzene	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Chloroethane	<29 *		57	29	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-7 (10')

Lab Sample ID: 500-145846-7

Date Collected: 05/22/18 10:40

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<21		110	21	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Chloromethane	<18		57	18	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
2-Chlorotoluene	<18		57	18	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
4-Chlorotoluene	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
cis-1,2-Dichloroethene	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
cis-1,3-Dichloropropene	<24		57	24	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Dibromochloromethane	<28		57	28	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2-Dibromoethane	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Dibromomethane	<15		57	15	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2-Dichlorobenzene	<19		57	19	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,3-Dichlorobenzene	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,4-Dichlorobenzene	<21		57	21	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Dichlorodifluoromethane	<38 *		110	38	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1-Dichloroethane	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2-Dichloroethane	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1-Dichloroethene	<22 *		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2-Dichloropropane	<24		57	24	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,3-Dichloropropane	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
2,2-Dichloropropane	<25		57	25	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1-Dichloropropene	<17 *		57	17	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Ethylbenzene	<10 *		14	10	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Hexachlorobutadiene	<25		57	25	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Isopropylbenzene	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Isopropyl ether	<16		57	16	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Methylene Chloride	<92		280	92	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Methyl tert-butyl ether	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Naphthalene	<19		57	19	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
n-Butylbenzene	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
N-Propylbenzene	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
p-Isopropyltoluene	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
sec-Butylbenzene	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Styrene	<22		57	22	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
tert-Butylbenzene	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1,1,2-Tetrachloroethane	<26		57	26	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1,2,2-Tetrachloroethane	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Tetrachloroethene	<21 *		57	21	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Toluene	<8.3		14	8.3	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
trans-1,2-Dichloroethene	<20 *		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
trans-1,3-Dichloropropene	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2,3-Trichlorobenzene	<26		57	26	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2,4-Trichlorobenzene	<19		57	19	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1,1-Trichloroethane	<21 *		57	21	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,1,2-Trichloroethane	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Trichloroethene	<9.3 *		28	9.3	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Trichlorofluoromethane	<24 *		57	24	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2,3-Trichloropropane	<23		57	23	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,2,4-Trimethylbenzene	<20		57	20	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
1,3,5-Trimethylbenzene	<21		57	21	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-7 (10')

Date Collected: 05/22/18 10:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-7

Matrix: Solid

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<15		57	15	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Xylenes, Total	<12		28	12	ug/Kg	☼	05/22/18 10:40	06/01/18 12:43	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124				05/22/18 10:40	06/01/18 12:43	50
Dibromofluoromethane	104		75 - 120				05/22/18 10:40	06/01/18 12:43	50
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				05/22/18 10:40	06/01/18 12:43	50
Toluene-d8 (Surr)	90		75 - 120				05/22/18 10:40	06/01/18 12:43	50

Client Sample ID: SS-8 (5')

Date Collected: 05/22/18 11:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-8

Matrix: Solid

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Bromobenzene	<27		74	27	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Bromochloromethane	<32		74	32	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Bromodichloromethane	<28		74	28	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Bromoform	<36		74	36	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Bromomethane	<59 *		150	59	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Carbon tetrachloride	<29 *		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Chlorobenzene	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Chloroethane	<38 *		74	38	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Chloroform	<28		150	28	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Chloromethane	<24		74	24	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
2-Chlorotoluene	<23		74	23	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
4-Chlorotoluene	<26		74	26	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
cis-1,2-Dichloroethene	<30		74	30	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
cis-1,3-Dichloropropene	<31		74	31	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Dibromochloromethane	<36		74	36	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2-Dibromoethane	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Dibromomethane	<20		74	20	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2-Dichlorobenzene	<25		74	25	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,3-Dichlorobenzene	<30		74	30	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,4-Dichlorobenzene	<27		74	27	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Dichlorodifluoromethane	<50 *		150	50	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1-Dichloroethane	<31		74	31	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2-Dichloroethane	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1-Dichloroethene	<29 *		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2-Dichloropropane	<32		74	32	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,3-Dichloropropane	<27		74	27	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
2,2-Dichloropropane	<33		74	33	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1-Dichloropropene	<22 *		74	22	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Ethylbenzene	<14 *		19	14	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Hexachlorobutadiene	<33		74	33	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Isopropylbenzene	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Isopropyl ether	<21		74	21	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Methylene Chloride	<120		370	120	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-8 (5')

Lab Sample ID: 500-145846-8

Date Collected: 05/22/18 11:00

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Naphthalene	<25		74	25	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
n-Butylbenzene	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
N-Propylbenzene	<31		74	31	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
p-Isopropyltoluene	<27		74	27	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
sec-Butylbenzene	<30		74	30	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Styrene	<29		74	29	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
tert-Butylbenzene	<30		74	30	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1,1,2-Tetrachloroethane	<34		74	34	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1,2,2-Tetrachloroethane	<30		74	30	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Tetrachloroethene	930	*	74	28	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Toluene	<11		19	11	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
trans-1,2-Dichloroethene	<26	*	74	26	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
trans-1,3-Dichloropropene	<27		74	27	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2,3-Trichlorobenzene	<34		74	34	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2,4-Trichlorobenzene	<25		74	25	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1,1-Trichloroethane	<28	*	74	28	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,1,2-Trichloroethane	<26		74	26	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Trichloroethene	<12	*	37	12	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Trichlorofluoromethane	<32	*	74	32	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2,3-Trichloropropane	<31		74	31	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,2,4-Trimethylbenzene	<27		74	27	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
1,3,5-Trimethylbenzene	<28		74	28	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Vinyl chloride	<20		74	20	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50
Xylenes, Total	<16		37	16	ug/Kg	☼	05/22/18 11:00	06/01/18 13:09	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124	05/22/18 11:00	06/01/18 13:09	50
Dibromofluoromethane	103		75 - 120	05/22/18 11:00	06/01/18 13:09	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126	05/22/18 11:00	06/01/18 13:09	50
Toluene-d8 (Surr)	90		75 - 120	05/22/18 11:00	06/01/18 13:09	50

Client Sample ID: SS-9 (10')

Lab Sample ID: 500-145846-9

Date Collected: 05/22/18 12:30

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.0		14	8.0	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Bromobenzene	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Bromochloromethane	<24		55	24	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Bromodichloromethane	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Bromoform	<27		55	27	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Bromomethane	<44	*	110	44	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Carbon tetrachloride	<21	*	55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Chlorobenzene	<21		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Chloroethane	<28	*	55	28	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Chloroform	<20		110	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Chloromethane	<18		55	18	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-9 (10')

Lab Sample ID: 500-145846-9

Date Collected: 05/22/18 12:30

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<19		55	19	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
cis-1,2-Dichloroethene	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Dibromochloromethane	<27		55	27	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2-Dibromo-3-Chloropropane	<110		270	110	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2-Dibromoethane	<21		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Dibromomethane	<15		55	15	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2-Dichlorobenzene	<18		55	18	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Dichlorodifluoromethane	<37 *		110	37	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1-Dichloroethane	<23		55	23	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2-Dichloroethane	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1-Dichloroethene	<21 *		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2-Dichloropropane	<24		55	24	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
2,2-Dichloropropane	<24		55	24	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1-Dichloropropene	<16 *		55	16	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Ethylbenzene	<10 *		14	10	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Hexachlorobutadiene	<25		55	25	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Isopropyl ether	<15		55	15	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Methylene Chloride	<90		270	90	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Methyl tert-butyl ether	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Naphthalene	<18		55	18	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
n-Butylbenzene	<21		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
p-Isopropyltoluene	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
sec-Butylbenzene	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Styrene	<21		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
tert-Butylbenzene	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1,1,2-Tetrachloroethane	<25		55	25	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Tetrachloroethene	<20 *		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Toluene	<8.1		14	8.1	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
trans-1,2-Dichloroethene	<19 *		55	19	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1,1-Trichloroethane	<21 *		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,1,2-Trichloroethane	<19		55	19	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Trichloroethene	<9.0 *		27	9.0	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Trichlorofluoromethane	<24 *		55	24	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2,3-Trichloropropane	<23		55	23	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,2,4-Trimethylbenzene	<20		55	20	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
1,3,5-Trimethylbenzene	<21		55	21	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Vinyl chloride	<14		55	14	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50
Xylenes, Total	<12		27	12	ug/Kg	☼	05/22/18 12:30	06/01/18 13:36	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-9 (10')

Date Collected: 05/22/18 12:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-9

Matrix: Solid

Percent Solids: 94.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124	05/22/18 12:30	06/01/18 13:36	50
Dibromofluoromethane	102		75 - 120	05/22/18 12:30	06/01/18 13:36	50
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	05/22/18 12:30	06/01/18 13:36	50
Toluene-d8 (Surr)	89		75 - 120	05/22/18 12:30	06/01/18 13:36	50

Client Sample ID: SS-10 (10')

Date Collected: 05/22/18 14:15

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-10

Matrix: Solid

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.7		15	8.7	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Bromobenzene	<21		60	21	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Bromochloromethane	<26		60	26	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Bromodichloromethane	<22		60	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Bromoform	<29		60	29	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Bromomethane	<48 *		120	48	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Carbon tetrachloride	<23 *		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Chlorobenzene	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Chloroethane	<30 *		60	30	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Chloroform	<22		120	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Chloromethane	<19		60	19	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
2-Chlorotoluene	<19		60	19	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
4-Chlorotoluene	<21		60	21	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
cis-1,2-Dichloroethene	<24		60	24	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Dibromochloromethane	<29		60	29	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2-Dibromoethane	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Dibromomethane	<16		60	16	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Dichlorodifluoromethane	<40 *		120	40	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1-Dichloroethane	<25		60	25	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2-Dichloroethane	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1-Dichloroethene	<23 *		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2-Dichloropropane	<26		60	26	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,3-Dichloropropane	<22		60	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
2,2-Dichloropropane	<27		60	27	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1-Dichloropropene	<18 *		60	18	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Ethylbenzene	<11 *		15	11	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Hexachlorobutadiene	<27		60	27	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Isopropylbenzene	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Isopropyl ether	<17		60	17	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Methylene Chloride	<98		300	98	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Naphthalene	<20		60	20	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
n-Butylbenzene	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
N-Propylbenzene	<25		60	25	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-10 (10')

Lab Sample ID: 500-145846-10

Date Collected: 05/22/18 14:15

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<22		60	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
sec-Butylbenzene	<24		60	24	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Styrene	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
tert-Butylbenzene	<24		60	24	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1,1,2-Tetrachloroethane	<24		60	24	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Tetrachloroethene	<22 *		60	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Toluene	<8.8		15	8.8	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
trans-1,2-Dichloroethene	<21 *		60	21	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2,3-Trichlorobenzene	<27		60	27	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2,4-Trichlorobenzene	<20		60	20	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1,1-Trichloroethane	<23 *		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Trichloroethene	<9.8 *		30	9.8	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Trichlorofluoromethane	<26 *		60	26	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2,3-Trichloropropane	<25		60	25	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,2,4-Trimethylbenzene	<21		60	21	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Vinyl chloride	<16		60	16	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50
Xylenes, Total	<13		30	13	ug/Kg	☼	05/22/18 14:15	06/01/18 14:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124	05/22/18 14:15	06/01/18 14:02	50
Dibromofluoromethane	103		75 - 120	05/22/18 14:15	06/01/18 14:02	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126	05/22/18 14:15	06/01/18 14:02	50
Toluene-d8 (Surr)	89		75 - 120	05/22/18 14:15	06/01/18 14:02	50

Client Sample ID: Trip Blank

Lab Sample ID: 500-145846-11

Date Collected: 05/21/18 00:00

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Bromobenzene	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Bromochloromethane	<21		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Bromoform	<24		50	24	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Bromomethane	<40 *		100	40	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Carbon tetrachloride	<19 *		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Chlorobenzene	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Chloroethane	<25 *		50	25	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Chloroform	<19		100	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Chloromethane	<16		50	16	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-145846-11

Date Collected: 05/21/18 00:00

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Dibromomethane	<14		50	14	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Dichlorodifluoromethane	<34 *		100	34	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1-Dichloroethene	<20 *		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1-Dichloropropene	<15 *		50	15	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Ethylbenzene	<9.2 *		13	9.2	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Isopropyl ether	<14		50	14	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Methylene Chloride	<82		250	82	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Naphthalene	<17		50	17	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
sec-Butylbenzene	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Styrene	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Tetrachloroethene	<19 *		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Toluene	<7.4		13	7.4	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
trans-1,2-Dichloroethene	<18 *		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1,1-Trichloroethane	<19 *		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Trichloroethene	<8.2 *		25	8.2	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Trichlorofluoromethane	<21 *		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Vinyl chloride	<13		50	13	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50
Xylenes, Total	<11		25	11	ug/Kg	☼	05/22/18 00:00	06/01/18 14:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124	05/22/18 00:00	06/01/18 14:28	50
Dibromofluoromethane	99		75 - 120	05/22/18 00:00	06/01/18 14:28	50
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	05/22/18 00:00	06/01/18 14:28	50
Toluene-d8 (Surr)	89		75 - 120	05/22/18 00:00	06/01/18 14:28	50

TestAmerica Chicago

Definitions/Glossary

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

GC/MS VOA

Prep Batch: 433914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-145846-1	SS-1 (3')	Total/NA	Solid	5035	
500-145846-2	SS-2 (10')	Total/NA	Solid	5035	
500-145846-3	SS-3 (3')	Total/NA	Solid	5035	
500-145846-4	SS-4 (3')	Total/NA	Solid	5035	
500-145846-5	SS-5 (5')	Total/NA	Solid	5035	
500-145846-6	SS-6 (10')	Total/NA	Solid	5035	
500-145846-7	SS-7 (10')	Total/NA	Solid	5035	
500-145846-8	SS-8 (5')	Total/NA	Solid	5035	
500-145846-9	SS-9 (10')	Total/NA	Solid	5035	
500-145846-10	SS-10 (10')	Total/NA	Solid	5035	
500-145846-11	Trip Blank	Total/NA	Solid	5035	
LB3 500-433914/20-A	Method Blank	Total/NA	Solid	5035	
LCS 500-433914/21-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 434732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-145846-1	SS-1 (3')	Total/NA	Solid	8260B	433914
500-145846-2	SS-2 (10')	Total/NA	Solid	8260B	433914
500-145846-3	SS-3 (3')	Total/NA	Solid	8260B	433914
500-145846-4	SS-4 (3')	Total/NA	Solid	8260B	433914
MB 500-434732/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-434732/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 434851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-145846-5	SS-5 (5')	Total/NA	Solid	8260B	433914
500-145846-6	SS-6 (10')	Total/NA	Solid	8260B	433914
500-145846-7	SS-7 (10')	Total/NA	Solid	8260B	433914
500-145846-8	SS-8 (5')	Total/NA	Solid	8260B	433914
500-145846-9	SS-9 (10')	Total/NA	Solid	8260B	433914
500-145846-10	SS-10 (10')	Total/NA	Solid	8260B	433914
500-145846-11	Trip Blank	Total/NA	Solid	8260B	433914
LB3 500-433914/20-A	Method Blank	Total/NA	Solid	8260B	433914
MB 500-434851/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-433914/21-A	Lab Control Sample	Total/NA	Solid	8260B	433914
LCS 500-434851/5	Lab Control Sample	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 433678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-145846-1	SS-1 (3')	Total/NA	Solid	Moisture	
500-145846-2	SS-2 (10')	Total/NA	Solid	Moisture	
500-145846-3	SS-3 (3')	Total/NA	Solid	Moisture	
500-145846-4	SS-4 (3')	Total/NA	Solid	Moisture	
500-145846-5	SS-5 (5')	Total/NA	Solid	Moisture	
500-145846-6	SS-6 (10')	Total/NA	Solid	Moisture	
500-145846-7	SS-7 (10')	Total/NA	Solid	Moisture	
500-145846-8	SS-8 (5')	Total/NA	Solid	Moisture	
500-145846-9	SS-9 (10')	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

General Chemistry (Continued)

Analysis Batch: 433678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-145846-10	SS-10 (10')	Total/NA	Solid	Moisture	
500-145846-11	Trip Blank	Total/NA	Solid	Moisture	

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Surrogate Summary

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-145846-1	SS-1 (3')	85	100	101	92
500-145846-2	SS-2 (10')	84	98	98	90
500-145846-3	SS-3 (3')	86	100	101	88
500-145846-4	SS-4 (3')	84	100	100	91
500-145846-5	SS-5 (5')	86	102	101	89
500-145846-6	SS-6 (10')	86	102	99	90
500-145846-7	SS-7 (10')	86	104	103	90
500-145846-8	SS-8 (5')	87	103	104	90
500-145846-9	SS-9 (10')	86	102	102	89
500-145846-10	SS-10 (10')	87	103	104	89
500-145846-11	Trip Blank	86	99	103	89
LB3 500-433914/20-A	Method Blank	83	93	89	94
LCS 500-433914/21-A	Lab Control Sample	83	92	91	93
LCS 500-434732/5	Lab Control Sample	82	97	99	92
LCS 500-434851/5	Lab Control Sample	80	96	95	92
MB 500-434732/7	Method Blank	83	99	100	92
MB 500-434851/7	Method Blank	84	99	98	90

Surrogate Legend

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

QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: LB3 500-433914/20-A
Matrix: Solid
Analysis Batch: 434851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433914

Analyte	LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<7.3		13	7.3	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Bromobenzene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Bromochloromethane	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Bromodichloromethane	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Bromoform	<24		50	24	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Bromomethane	<40		100	40	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Carbon tetrachloride	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Chlorobenzene	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Chloroethane	<25		50	25	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Chloroform	<19		100	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Chloromethane	<16		50	16	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
2-Chlorotoluene	<16		50	16	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
4-Chlorotoluene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Dibromochloromethane	<24		50	24	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2-Dibromoethane	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Dibromomethane	<14		50	14	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1-Dichloroethane	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2-Dichloroethane	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1-Dichloroethene	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2-Dichloropropane	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,3-Dichloropropane	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
2,2-Dichloropropane	<22		50	22	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1-Dichloropropene	<15		50	15	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Hexachlorobutadiene	<22		50	22	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Isopropylbenzene	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Isopropyl ether	<14		50	14	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Methylene Chloride	<82		250	82	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Naphthalene	<17		50	17	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
n-Butylbenzene	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
N-Propylbenzene	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
p-Isopropyltoluene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
sec-Butylbenzene	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Styrene	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
tert-Butylbenzene	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Tetrachloroethene	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Toluene	<7.4		13	7.4	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: LB3 500-433914/20-A
Matrix: Solid
Analysis Batch: 434851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433914

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Trichloroethene	<8.2		25	8.2	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Trichlorofluoromethane	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Vinyl chloride	<13		50	13	ug/Kg		05/24/18 18:30	06/01/18 15:22	50
Xylenes, Total	<11		25	11	ug/Kg		05/24/18 18:30	06/01/18 15:22	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		72 - 124	05/24/18 18:30	06/01/18 15:22	50
Dibromofluoromethane	93		75 - 120	05/24/18 18:30	06/01/18 15:22	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	05/24/18 18:30	06/01/18 15:22	50
Toluene-d8 (Surr)	94		75 - 120	05/24/18 18:30	06/01/18 15:22	50

Lab Sample ID: LCS 500-433914/21-A
Matrix: Solid
Analysis Batch: 434851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	2500	2820		ug/Kg		113	70 - 120
Bromobenzene	2500	2720		ug/Kg		109	70 - 122
Bromochloromethane	2500	2860		ug/Kg		115	65 - 122
Bromodichloromethane	2500	2850		ug/Kg		114	69 - 120
Bromoform	2500	3110		ug/Kg		124	56 - 132
Bromomethane	2500	3290	*	ug/Kg		131	40 - 130
Carbon tetrachloride	2500	3510	*	ug/Kg		140	65 - 122
Chlorobenzene	2500	2800		ug/Kg		112	70 - 120
Chloroethane	2500	3520	*	ug/Kg		141	45 - 127
Chloroform	2500	2860		ug/Kg		114	70 - 120
Chloromethane	2500	1900		ug/Kg		76	54 - 147
2-Chlorotoluene	2500	2750		ug/Kg		110	70 - 125
4-Chlorotoluene	2500	2750		ug/Kg		110	68 - 124
cis-1,2-Dichloroethene	2500	2930		ug/Kg		117	70 - 125
cis-1,3-Dichloropropene	2500	2620		ug/Kg		105	64 - 127
Dibromochloromethane	2500	3080		ug/Kg		123	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2830		ug/Kg		113	56 - 123
1,2-Dibromoethane	2500	2790		ug/Kg		112	70 - 125
Dibromomethane	2500	2780		ug/Kg		111	70 - 120
1,2-Dichlorobenzene	2500	2740		ug/Kg		109	70 - 125
1,3-Dichlorobenzene	2500	2770		ug/Kg		111	70 - 125
1,4-Dichlorobenzene	2500	2770		ug/Kg		111	70 - 120
Dichlorodifluoromethane	2500	2030		ug/Kg		81	40 - 150
1,1-Dichloroethane	2500	2820		ug/Kg		113	70 - 125

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QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: LCS 500-433914/21-A
Matrix: Solid
Analysis Batch: 434851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	2840		ug/Kg		114	68 - 127
1,1-Dichloroethene	2500	3180	*	ug/Kg		127	67 - 122
1,2-Dichloropropane	2500	2610		ug/Kg		104	67 - 130
1,3-Dichloropropane	2500	2650		ug/Kg		106	62 - 136
2,2-Dichloropropane	2500	2920		ug/Kg		117	58 - 129
1,1-Dichloropropene	2500	3140	*	ug/Kg		126	70 - 121
Ethylbenzene	2500	3030	*	ug/Kg		121	70 - 120
Hexachlorobutadiene	2500	2890		ug/Kg		115	51 - 150
Isopropylbenzene	2500	2850		ug/Kg		114	70 - 126
Methylene Chloride	2500	2710		ug/Kg		108	69 - 125
Methyl tert-butyl ether	2500	2730		ug/Kg		109	70 - 120
Naphthalene	2500	2500		ug/Kg		100	59 - 130
n-Butylbenzene	2500	3030		ug/Kg		121	68 - 125
N-Propylbenzene	2500	2900		ug/Kg		116	69 - 127
p-Isopropyltoluene	2500	2970		ug/Kg		119	70 - 125
sec-Butylbenzene	2500	3000		ug/Kg		120	70 - 123
Styrene	2500	2890		ug/Kg		116	70 - 120
tert-Butylbenzene	2500	2880		ug/Kg		115	70 - 121
1,1,1,2-Tetrachloroethane	2500	2970		ug/Kg		119	70 - 125
1,1,1,2,2-Tetrachloroethane	2500	2560		ug/Kg		102	67 - 127
Tetrachloroethene	2500	3320	*	ug/Kg		133	70 - 128
Toluene	2500	2870		ug/Kg		115	70 - 125
trans-1,2-Dichloroethene	2500	3170	*	ug/Kg		127	70 - 125
trans-1,3-Dichloropropene	2500	2610		ug/Kg		104	62 - 128
1,2,3-Trichlorobenzene	2500	2630		ug/Kg		105	55 - 140
1,2,4-Trichlorobenzene	2500	2770		ug/Kg		111	66 - 127
1,1,1-Trichloroethane	2500	3200	*	ug/Kg		128	70 - 125
1,1,2-Trichloroethane	2500	2750		ug/Kg		110	70 - 122
Trichloroethene	2500	3220	*	ug/Kg		129	70 - 125
Trichlorofluoromethane	2500	3410	*	ug/Kg		136	70 - 126
1,2,3-Trichloropropane	2500	2670		ug/Kg		107	50 - 133
1,2,4-Trimethylbenzene	2500	2730		ug/Kg		109	70 - 123
1,3,5-Trimethylbenzene	2500	2840		ug/Kg		114	70 - 123
Vinyl chloride	2500	2490		ug/Kg		99	64 - 126
Xylenes, Total	5000	5880		ug/Kg		118	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		72 - 124
Dibromofluoromethane	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	91		75 - 126
Toluene-d8 (Surr)	93		75 - 120

Lab Sample ID: MB 500-434732/7
Matrix: Solid
Analysis Batch: 434732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			05/31/18 11:47	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: MB 500-434732/7
Matrix: Solid
Analysis Batch: 434732

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/31/18 11:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/31/18 11:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/31/18 11:47	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/31/18 11:47	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			05/31/18 11:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/31/18 11:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/31/18 11:47	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/31/18 11:47	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/31/18 11:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/31/18 11:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/31/18 11:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/31/18 11:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/31/18 11:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/31/18 11:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/31/18 11:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/31/18 11:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/31/18 11:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/31/18 11:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/31/18 11:47	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			05/31/18 11:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/31/18 11:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/31/18 11:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/31/18 11:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/31/18 11:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/31/18 11:47	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/31/18 11:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/31/18 11:47	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/31/18 11:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/31/18 11:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/31/18 11:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/31/18 11:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/31/18 11:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/31/18 11:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/31/18 11:47	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/31/18 11:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/31/18 11:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			05/31/18 11:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/31/18 11:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/31/18 11:47	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/31/18 11:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/31/18 11:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/31/18 11:47	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: MB 500-434732/7
Matrix: Solid
Analysis Batch: 434732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/31/18 11:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/31/18 11:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/31/18 11:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/31/18 11:47	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/31/18 11:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/31/18 11:47	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			05/31/18 11:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/31/18 11:47	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/31/18 11:47	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			05/31/18 11:47	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/31/18 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		72 - 124		05/31/18 11:47	1
Dibromofluoromethane	99		75 - 120		05/31/18 11:47	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/31/18 11:47	1
Toluene-d8 (Surr)	92		75 - 120		05/31/18 11:47	1

Lab Sample ID: LCS 500-434732/5
Matrix: Solid
Analysis Batch: 434732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.5		ug/Kg		93	70 - 120
Bromobenzene	50.0	46.1		ug/Kg		92	70 - 122
Bromochloromethane	50.0	51.5		ug/Kg		103	65 - 122
Bromodichloromethane	50.0	49.4		ug/Kg		99	69 - 120
Bromoform	50.0	54.5		ug/Kg		109	56 - 132
Bromomethane	50.0	67.9	*	ug/Kg		136	40 - 130
Carbon tetrachloride	50.0	53.1		ug/Kg		106	65 - 122
Chlorobenzene	50.0	45.8		ug/Kg		92	70 - 120
Chloroethane	50.0	63.2		ug/Kg		126	45 - 127
Chloroform	50.0	49.3		ug/Kg		99	70 - 120
Chloromethane	50.0	48.6		ug/Kg		97	54 - 147
2-Chlorotoluene	50.0	42.5		ug/Kg		85	70 - 125
4-Chlorotoluene	50.0	43.1		ug/Kg		86	68 - 124
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	45.2		ug/Kg		90	64 - 127
Dibromochloromethane	50.0	53.1		ug/Kg		106	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	47.2		ug/Kg		94	56 - 123
1,2-Dibromoethane	50.0	47.8		ug/Kg		96	70 - 125
Dibromomethane	50.0	50.6		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	50.0	45.5		ug/Kg		91	70 - 125
1,3-Dichlorobenzene	50.0	44.4		ug/Kg		89	70 - 125
1,4-Dichlorobenzene	50.0	44.3		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	83.4	*	ug/Kg		167	40 - 150
1,1-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 125
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	68 - 127

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QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: LCS 500-434732/5
Matrix: Solid
Analysis Batch: 434732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	53.4		ug/Kg		107	67 - 122
1,2-Dichloropropane	50.0	45.4		ug/Kg		91	67 - 130
1,3-Dichloropropane	50.0	45.3		ug/Kg		91	62 - 136
2,2-Dichloropropane	50.0	43.3		ug/Kg		87	58 - 129
1,1-Dichloropropene	50.0	49.0		ug/Kg		98	70 - 121
Ethylbenzene	50.0	47.0		ug/Kg		94	70 - 120
Hexachlorobutadiene	50.0	41.2		ug/Kg		82	51 - 150
Isopropylbenzene	50.0	42.3		ug/Kg		85	70 - 126
Methylene Chloride	50.0	49.6		ug/Kg		99	69 - 125
Methyl tert-butyl ether	50.0	49.6		ug/Kg		99	70 - 120
Naphthalene	50.0	42.9		ug/Kg		86	59 - 130
n-Butylbenzene	50.0	43.5		ug/Kg		87	68 - 125
N-Propylbenzene	50.0	43.4		ug/Kg		87	69 - 127
p-Isopropyltoluene	50.0	43.8		ug/Kg		88	70 - 125
sec-Butylbenzene	50.0	43.4		ug/Kg		87	70 - 123
Styrene	50.0	46.0		ug/Kg		92	70 - 120
tert-Butylbenzene	50.0	43.2		ug/Kg		86	70 - 121
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.8		ug/Kg		90	67 - 127
Tetrachloroethene	50.0	47.9		ug/Kg		96	70 - 128
Toluene	50.0	45.4		ug/Kg		91	70 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	70 - 125
trans-1,3-Dichloropropene	50.0	43.6		ug/Kg		87	62 - 128
1,2,3-Trichlorobenzene	50.0	44.8		ug/Kg		90	55 - 140
1,2,4-Trichlorobenzene	50.0	43.7		ug/Kg		87	66 - 127
1,1,1-Trichloroethane	50.0	50.0		ug/Kg		100	70 - 125
1,1,2-Trichloroethane	50.0	47.0		ug/Kg		94	70 - 122
Trichloroethene	50.0	52.1		ug/Kg		104	70 - 125
Trichlorofluoromethane	50.0	58.8		ug/Kg		118	70 - 126
1,2,3-Trichloropropane	50.0	46.5		ug/Kg		93	50 - 133
1,2,4-Trimethylbenzene	50.0	42.4		ug/Kg		85	70 - 123
1,3,5-Trimethylbenzene	50.0	43.5		ug/Kg		87	70 - 123
Vinyl chloride	50.0	49.0		ug/Kg		98	64 - 126
Xylenes, Total	100	91.1		ug/Kg		91	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	82		72 - 124
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
Toluene-d8 (Surr)	92		75 - 120

Lab Sample ID: MB 500-434851/7
Matrix: Solid
Analysis Batch: 434851

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.25	0.15	ug/Kg			06/01/18 10:54	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			06/01/18 10:54	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: MB 500-434851/7
Matrix: Solid
Analysis Batch: 434851

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			06/01/18 10:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			06/01/18 10:54	1
Bromoform	<0.48		1.0	0.48	ug/Kg			06/01/18 10:54	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			06/01/18 10:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			06/01/18 10:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			06/01/18 10:54	1
Chloroform	<0.37		2.0	0.37	ug/Kg			06/01/18 10:54	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			06/01/18 10:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			06/01/18 10:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			06/01/18 10:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			06/01/18 10:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			06/01/18 10:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			06/01/18 10:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			06/01/18 10:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			06/01/18 10:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			06/01/18 10:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			06/01/18 10:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			06/01/18 10:54	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			06/01/18 10:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			06/01/18 10:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			06/01/18 10:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			06/01/18 10:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			06/01/18 10:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			06/01/18 10:54	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/01/18 10:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			06/01/18 10:54	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			06/01/18 10:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			06/01/18 10:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			06/01/18 10:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/01/18 10:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			06/01/18 10:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			06/01/18 10:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/01/18 10:54	1
Styrene	<0.39		1.0	0.39	ug/Kg			06/01/18 10:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/01/18 10:54	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			06/01/18 10:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			06/01/18 10:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			06/01/18 10:54	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/01/18 10:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			06/01/18 10:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			06/01/18 10:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			06/01/18 10:54	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: MB 500-434851/7
Matrix: Solid
Analysis Batch: 434851

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			06/01/18 10:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			06/01/18 10:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			06/01/18 10:54	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			06/01/18 10:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			06/01/18 10:54	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			06/01/18 10:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/01/18 10:54	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/01/18 10:54	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			06/01/18 10:54	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/01/18 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		06/01/18 10:54	1
Dibromofluoromethane	99		75 - 120		06/01/18 10:54	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		06/01/18 10:54	1
Toluene-d8 (Surr)	90		75 - 120		06/01/18 10:54	1

Lab Sample ID: LCS 500-434851/5
Matrix: Solid
Analysis Batch: 434851

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.4		ug/Kg		97	70 - 120
Bromobenzene	50.0	45.5		ug/Kg		91	70 - 122
Bromochloromethane	50.0	53.1		ug/Kg		106	65 - 122
Bromodichloromethane	50.0	49.3		ug/Kg		99	69 - 120
Bromoform	50.0	53.6		ug/Kg		107	56 - 132
Bromomethane	50.0	66.8	*	ug/Kg		134	40 - 130
Carbon tetrachloride	50.0	58.8		ug/Kg		118	65 - 122
Chlorobenzene	50.0	47.3		ug/Kg		95	70 - 120
Chloroethane	50.0	68.0	*	ug/Kg		136	45 - 127
Chloroform	50.0	50.3		ug/Kg		101	70 - 120
Chloromethane	50.0	45.7		ug/Kg		91	54 - 147
2-Chlorotoluene	50.0	44.4		ug/Kg		89	70 - 125
4-Chlorotoluene	50.0	45.6		ug/Kg		91	68 - 124
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	45.6		ug/Kg		91	64 - 127
Dibromochloromethane	50.0	51.9		ug/Kg		104	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/Kg		91	56 - 123
1,2-Dibromoethane	50.0	48.1		ug/Kg		96	70 - 125
Dibromomethane	50.0	50.5		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	50.0	45.8		ug/Kg		92	70 - 125
1,3-Dichlorobenzene	50.0	45.9		ug/Kg		92	70 - 125
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	70 - 120
Dichlorodifluoromethane	50.0	91.1	*	ug/Kg		182	40 - 150
1,1-Dichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	68 - 127
1,1-Dichloroethene	50.0	58.9		ug/Kg		118	67 - 122

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

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

Lab Sample ID: LCS 500-434851/5

Matrix: Solid

Analysis Batch: 434851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	45.8		ug/Kg		92	67 - 130
1,3-Dichloropropane	50.0	45.6		ug/Kg		91	62 - 136
2,2-Dichloropropane	50.0	47.4		ug/Kg		95	58 - 129
1,1-Dichloropropene	50.0	52.7		ug/Kg		105	70 - 121
Ethylbenzene	50.0	50.1		ug/Kg		100	70 - 120
Hexachlorobutadiene	50.0	45.3		ug/Kg		91	51 - 150
Isopropylbenzene	50.0	45.6		ug/Kg		91	70 - 126
Methylene Chloride	50.0	48.6		ug/Kg		97	69 - 125
Methyl tert-butyl ether	50.0	48.6		ug/Kg		97	70 - 120
Naphthalene	50.0	42.0		ug/Kg		84	59 - 130
n-Butylbenzene	50.0	48.0		ug/Kg		96	68 - 125
N-Propylbenzene	50.0	46.6		ug/Kg		93	69 - 127
p-Isopropyltoluene	50.0	47.7		ug/Kg		95	70 - 125
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 123
Styrene	50.0	48.1		ug/Kg		96	70 - 120
tert-Butylbenzene	50.0	45.8		ug/Kg		92	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.8		ug/Kg		102	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	43.9		ug/Kg		88	67 - 127
Tetrachloroethene	50.0	52.9		ug/Kg		106	70 - 128
Toluene	50.0	49.1		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	50.0	54.9		ug/Kg		110	70 - 125
trans-1,3-Dichloropropene	50.0	44.4		ug/Kg		89	62 - 128
1,2,3-Trichlorobenzene	50.0	44.1		ug/Kg		88	55 - 140
1,2,4-Trichlorobenzene	50.0	43.7		ug/Kg		87	66 - 127
1,1,1-Trichloroethane	50.0	54.0		ug/Kg		108	70 - 125
1,1,2-Trichloroethane	50.0	46.6		ug/Kg		93	70 - 122
Trichloroethene	50.0	53.7		ug/Kg		107	70 - 125
Trichlorofluoromethane	50.0	63.3	*	ug/Kg		127	70 - 126
1,2,3-Trichloropropane	50.0	45.5		ug/Kg		91	50 - 133
1,2,4-Trimethylbenzene	50.0	44.0		ug/Kg		88	70 - 123
1,3,5-Trimethylbenzene	50.0	45.7		ug/Kg		91	70 - 123
Vinyl chloride	50.0	50.9		ug/Kg		102	64 - 126
Xylenes, Total	100	96.0		ug/Kg		96	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		72 - 124
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
Toluene-d8 (Surr)	92		75 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-1 (3')

Date Collected: 05/21/18 11:20

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-1 (3')

Date Collected: 05/21/18 11:20

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-1

Matrix: Solid

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/21/18 11:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434732	05/31/18 18:29	EMA	TAL CHI

Client Sample ID: SS-2 (10')

Date Collected: 05/21/18 11:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-2 (10')

Date Collected: 05/21/18 11:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-2

Matrix: Solid

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/21/18 11:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434732	05/31/18 18:56	EMA	TAL CHI

Client Sample ID: SS-3 (3')

Date Collected: 05/21/18 11:50

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-3 (3')

Date Collected: 05/21/18 11:50

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-3

Matrix: Solid

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/21/18 11:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434732	05/31/18 19:22	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-4 (3')

Date Collected: 05/21/18 13:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-4 (3')

Date Collected: 05/21/18 13:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-4

Matrix: Solid

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/21/18 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434732	05/31/18 19:49	EMA	TAL CHI

Client Sample ID: SS-5 (5')

Date Collected: 05/22/18 08:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-5 (5')

Date Collected: 05/22/18 08:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-5

Matrix: Solid

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 08:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 11:48	EMA	TAL CHI

Client Sample ID: SS-6 (10')

Date Collected: 05/22/18 08:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-6 (10')

Date Collected: 05/22/18 08:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-6

Matrix: Solid

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 08:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 12:17	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-7 (10')

Date Collected: 05/22/18 10:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-7 (10')

Date Collected: 05/22/18 10:40

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-7

Matrix: Solid

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 12:43	EMA	TAL CHI

Client Sample ID: SS-8 (5')

Date Collected: 05/22/18 11:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-8 (5')

Date Collected: 05/22/18 11:00

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-8

Matrix: Solid

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 11:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 13:09	EMA	TAL CHI

Client Sample ID: SS-9 (10')

Date Collected: 05/22/18 12:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-9 (10')

Date Collected: 05/22/18 12:30

Date Received: 05/23/18 09:20

Lab Sample ID: 500-145846-9

Matrix: Solid

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 13:36	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
 Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Client Sample ID: SS-10 (10')

Lab Sample ID: 500-145846-10

Date Collected: 05/22/18 14:15

Matrix: Solid

Date Received: 05/23/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:32	LWN	TAL CHI

Client Sample ID: SS-10 (10')

Lab Sample ID: 500-145846-10

Date Collected: 05/22/18 14:15

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 14:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 14:02	EMA	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-145846-11

Date Collected: 05/21/18 00:00

Matrix: Solid

Date Received: 05/23/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	433678	05/23/18 15:36	LWN	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-145846-11

Date Collected: 05/21/18 00:00

Matrix: Solid

Date Received: 05/23/18 09:20

Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			433914	05/22/18 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	434851	06/01/18 14:28	EMA	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: 2803-2807 University Ave - 285211228.72

TestAmerica Job ID: 500-145846-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To Contact: <u>Robert Langsdon</u> Company: <u>SCS Engineers</u> Address: <u>2880 Dairy Drive</u> Address: <u>Morristown, NJ 07918</u> Phone: <u>908-246-7329</u> Fax: E-Mail: <u>Robert.Langsdon@scsengineers.com</u>	(optional)	Bill To Contact: Company: <u>Same</u> Address: Address: Phone: Fax: PO#/Reference#	(optional)
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Chain of Custody Record

Lab Job #: 500-145846
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 5.3

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM		
<u>MOM Partnership</u>		<u>25211228.72</u>		<u>MeOH</u>						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
<u>2803-2809 University Ave.</u>		<u>NJ</u>								
<u>Nat'l Harmon</u>										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			Comments	
1		<u>SS-1 (3')</u>	<u>5-21-18</u>	<u>1120</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>		
2		<u>SS-2 (10')</u>	<u>5-21-18</u>	<u>1130</u>	<u>2</u>	<u>S</u>				
3		<u>SS-3 (3')</u>	<u>5-21-18</u>	<u>1150</u>	<u>2</u>	<u>S</u>				
4		<u>SS-4 (3')</u>	<u>5-21-18</u>	<u>1330</u>	<u>2</u>	<u>S</u>				
5		<u>SS-5 (5')</u>	<u>5-22-18</u>	<u>800</u>	<u>2</u>	<u>S</u>				
6		<u>SS-6 (10')</u>	<u>5-22-18</u>	<u>840</u>	<u>2</u>	<u>S</u>				
7		<u>SS-7 (10')</u>	<u>5-22-18</u>	<u>1040</u>	<u>2</u>	<u>S</u>				
8		<u>SS-8 (5')</u>	<u>5-22-18</u>	<u>1100</u>	<u>2</u>	<u>S</u>				
9		<u>SS-9 (10')</u>	<u>5-22-18</u>	<u>1230</u>	<u>2</u>	<u>S</u>				
10		<u>SS-10 (10')</u>	<u>5-22-18</u>	<u>1415</u>	<u>2</u>	<u>S</u>				
11		<u>TRIP Blank</u>								

Turnaround Time Required (Business Days): 7 Days 1 Day 2 Days 5 Days 10 Days 15 Days Other

Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Nat'l Harmon</u> Company: <u>SCS</u> Date: <u>5/22/18</u> Time: <u>1600</u>	Received By <u>Sam</u> Company: <u>TA</u> Date: <u>05/23/18</u> Time: <u>0920</u>	Lab Courier: _____
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____	Shipped: <input checked="" type="checkbox"/>
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments


 500-145846 COC

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-145846-1

Login Number: 145846

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX E

Groundwater Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-146634-1

Client Project/Site: MOM Partnership - 25211228.72

For:

SCS Engineers

2830 Dairy Dr

Madison, Wisconsin 53718

Attn: Mr. Robert Langdon



Authorized for release by:

6/19/2018 4:16:11 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Sample Results	35
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Case Narrative

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Job ID: 500-146634-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-146634-1**

Comments

No additional comments.

Receipt

The samples were received on 6/8/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for 436983 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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



Detection Summary

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW1R

Lab Sample ID: 500-146634-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.3	J	2.0	0.67	ug/L	1		8260B	Total/NA
Tetrachloroethene	11		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 500-146634-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.3		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW-4P

Lab Sample ID: 500-146634-3

No Detections.

Client Sample ID: MW-5

Lab Sample ID: 500-146634-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.7		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 500-146634-5

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 500-146634-6

No Detections.

Client Sample ID: MW-8

Lab Sample ID: 500-146634-7

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 500-146634-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2P

Lab Sample ID: 500-146634-9

No Detections.

Client Sample ID: PZ-2

Lab Sample ID: 500-146634-10

No Detections.

Client Sample ID: UP-MW-1

Lab Sample ID: 500-146634-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	85		0.50	0.15	ug/L	1		8260B	Total/NA
Isopropylbenzene	9.7		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	42		1.0	0.34	ug/L	1		8260B	Total/NA
N-Propylbenzene	24		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.98	J	1.0	0.36	ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.9		1.0	0.40	ug/L	1		8260B	Total/NA
Toluene	13		0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-1 (Continued)

Lab Sample ID: 500-146634-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	39		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	33		1.0	0.25	ug/L	1		8260B	Total/NA
Ethylbenzene - DL	220		5.0	1.8	ug/L	10		8260B	Total/NA
Xylenes, Total - DL	380		10	2.2	ug/L	10		8260B	Total/NA

Client Sample ID: UP-MW-2

Lab Sample ID: 500-146634-12

No Detections.

Client Sample ID: UP-MW-3

Lab Sample ID: 500-146634-13

No Detections.

Client Sample ID: UP-MW-3-FD

Lab Sample ID: 500-146634-14

No Detections.

Client Sample ID: UP-MW-4

Lab Sample ID: 500-146634-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	15		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-146634-16

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-146634-1	MW1R	Water	06/06/18 10:50	06/08/18 09:15
500-146634-2	MW-3	Water	06/06/18 12:20	06/08/18 09:15
500-146634-3	MW-4P	Water	06/06/18 11:45	06/08/18 09:15
500-146634-4	MW-5	Water	06/06/18 12:45	06/08/18 09:15
500-146634-5	MW-6	Water	06/06/18 14:15	06/08/18 09:15
500-146634-6	MW-7	Water	06/06/18 15:00	06/08/18 09:15
500-146634-7	MW-8	Water	06/06/18 15:15	06/08/18 09:15
500-146634-8	MW-2	Water	06/07/18 09:15	06/08/18 09:15
500-146634-9	MW-2P	Water	06/07/18 09:45	06/08/18 09:15
500-146634-10	PZ-2	Water	06/07/18 10:45	06/08/18 09:15
500-146634-11	UP-MW-1	Water	06/07/18 11:45	06/08/18 09:15
500-146634-12	UP-MW-2	Water	06/07/18 11:00	06/08/18 09:15
500-146634-13	UP-MW-3	Water	06/07/18 10:00	06/08/18 09:15
500-146634-14	UP-MW-3-FD	Water	06/07/18 10:05	06/08/18 09:15
500-146634-15	UP-MW-4	Water	06/07/18 12:15	06/08/18 09:15
500-146634-16	Trip Blank	Water	06/07/18 00:00	06/08/18 09:15

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW1R
Date Collected: 06/06/18 10:50
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 15:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 15:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 15:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 15:43	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 15:43	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 15:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 15:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 15:43	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 15:43	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 15:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 15:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 15:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 15:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 15:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 15:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 15:43	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 15:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 15:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 15:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 15:43	1
Dichlorodifluoromethane	1.3	J	2.0	0.67	ug/L			06/13/18 15:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 15:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 15:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 15:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 15:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 15:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 15:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 15:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 15:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 15:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 15:43	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 15:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 15:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 15:43	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 15:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 15:43	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 15:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 15:43	1
Tetrachloroethene	11		1.0	0.37	ug/L			06/13/18 15:43	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 15:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 15:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 15:43	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW1R
Date Collected: 06/06/18 10:50
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 15:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 15:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 15:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 15:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 15:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 15:43	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 15:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 15:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 15:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 15:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124					06/13/18 15:43	1
Dibromofluoromethane	101		75 - 120					06/13/18 15:43	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126					06/13/18 15:43	1
Toluene-d8 (Surr)	92		75 - 120					06/13/18 15:43	1

Client Sample ID: MW-3
Date Collected: 06/06/18 12:20
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 16:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 16:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 16:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 16:11	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 16:11	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 16:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 16:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 16:11	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 16:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 16:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 16:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 16:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 16:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 16:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 16:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 16:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 16:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 16:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 16:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 16:11	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 16:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 16:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-3
Date Collected: 06/06/18 12:20
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 16:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 16:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 16:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 16:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 16:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 16:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 16:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 16:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 16:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 16:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 16:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 16:11	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 16:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 16:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 16:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 16:11	1
Tetrachloroethene	3.3		1.0	0.37	ug/L			06/13/18 16:11	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 16:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 16:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 16:11	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 16:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 16:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 16:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 16:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 16:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 16:11	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 16:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 16:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 16:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 16:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		72 - 124		06/13/18 16:11	1
Dibromofluoromethane	100		75 - 120		06/13/18 16:11	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		06/13/18 16:11	1
Toluene-d8 (Surr)	93		75 - 120		06/13/18 16:11	1

Client Sample ID: MW-4P
Date Collected: 06/06/18 11:45
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 16:38	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 16:38	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 16:38	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-4P

Lab Sample ID: 500-146634-3

Date Collected: 06/06/18 11:45

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 16:38	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 16:38	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 16:38	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 16:38	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 16:38	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 16:38	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 16:38	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 16:38	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 16:38	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 16:38	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 16:38	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 16:38	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 16:38	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 16:38	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 16:38	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 16:38	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 16:38	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 16:38	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 16:38	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 16:38	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 16:38	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 16:38	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 16:38	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 16:38	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 16:38	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 16:38	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 16:38	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 16:38	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 16:38	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 16:38	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 16:38	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 16:38	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 16:38	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 16:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 16:38	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/13/18 16:38	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 16:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 16:38	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 16:38	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 16:38	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 16:38	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 16:38	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-4P

Date Collected: 06/06/18 11:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 16:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 16:38	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 16:38	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 16:38	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 16:38	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 16:38	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 16:38	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124					06/13/18 16:38	1
Dibromofluoromethane	99		75 - 120					06/13/18 16:38	1
1,2-Dichloroethane-d4 (Surr)	99		75 - 126					06/13/18 16:38	1
Toluene-d8 (Surr)	94		75 - 120					06/13/18 16:38	1

Client Sample ID: MW-5

Date Collected: 06/06/18 12:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 17:06	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 17:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 17:06	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 17:06	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 17:06	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 17:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 17:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 17:06	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 17:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 17:06	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 17:06	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 17:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 17:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 17:06	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 17:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 17:06	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 17:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 17:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 17:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 17:06	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 17:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 17:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 17:06	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 17:06	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 17:06	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-5
Date Collected: 06/06/18 12:45
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 17:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 17:06	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 17:06	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 17:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 17:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 17:06	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 17:06	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 17:06	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 17:06	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 17:06	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 17:06	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 17:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 17:06	1
Tetrachloroethene	2.7		1.0	0.37	ug/L			06/13/18 17:06	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 17:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 17:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 17:06	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 17:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 17:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 17:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 17:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 17:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 17:06	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 17:06	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 17:06	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 17:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 17:06	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		06/13/18 17:06	1
Dibromofluoromethane	96		75 - 120		06/13/18 17:06	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		06/13/18 17:06	1
Toluene-d8 (Surr)	93		75 - 120		06/13/18 17:06	1

Client Sample ID: MW-6
Date Collected: 06/06/18 14:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 17:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 17:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 17:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 17:34	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 17:34	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 17:34	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-6

Lab Sample ID: 500-146634-5

Date Collected: 06/06/18 14:15

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 17:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 17:34	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 17:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 17:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 17:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 17:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 17:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 17:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 17:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 17:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 17:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 17:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 17:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 17:34	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 17:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 17:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 17:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 17:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 17:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 17:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 17:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 17:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 17:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 17:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 17:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 17:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 17:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 17:34	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 17:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 17:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 17:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 17:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/13/18 17:34	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 17:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 17:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 17:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 17:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 17:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 17:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 17:34	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 17:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 17:34	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-6

Date Collected: 06/06/18 14:15

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 17:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 17:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 17:34	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 17:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		06/13/18 17:34	1
Dibromofluoromethane	96		75 - 120		06/13/18 17:34	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		06/13/18 17:34	1
Toluene-d8 (Surr)	93		75 - 120		06/13/18 17:34	1

Client Sample ID: MW-7

Date Collected: 06/06/18 15:00

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 18:01	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 18:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 18:01	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 18:01	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 18:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 18:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 18:01	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 18:01	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 18:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 18:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 18:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 18:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 18:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 18:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 18:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 18:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 18:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:01	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 18:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 18:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 18:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 18:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 18:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 18:01	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 18:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 18:01	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-7
Date Collected: 06/06/18 15:00
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 18:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 18:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 18:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 18:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 18:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:01	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 18:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:01	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 18:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 18:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/13/18 18:01	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 18:01	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 18:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 18:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 18:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 18:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 18:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 18:01	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 18:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 18:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 18:01	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:01	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 18:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 18:01	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124					06/13/18 18:01	1
Dibromofluoromethane	98		75 - 120					06/13/18 18:01	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					06/13/18 18:01	1
Toluene-d8 (Surr)	93		75 - 120					06/13/18 18:01	1

Client Sample ID: MW-8
Date Collected: 06/06/18 15:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 18:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 18:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 18:28	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 18:28	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 18:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 18:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 18:28	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-8
Date Collected: 06/06/18 15:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 18:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 18:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 18:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 18:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 18:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 18:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 18:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 18:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 18:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 18:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:28	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 18:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 18:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 18:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 18:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 18:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 18:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 18:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 18:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 18:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 18:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 18:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 18:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 18:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:28	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 18:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 18:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 18:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/13/18 18:28	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 18:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 18:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 18:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 18:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 18:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 18:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 18:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 18:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 18:28	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 18:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 18:28	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-8
Date Collected: 06/06/18 15:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 18:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		72 - 124					06/13/18 18:28	1
Dibromofluoromethane	97		75 - 120					06/13/18 18:28	1
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					06/13/18 18:28	1
Toluene-d8 (Surr)	94		75 - 120					06/13/18 18:28	1

Client Sample ID: MW-2
Date Collected: 06/07/18 09:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 18:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 18:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 18:56	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 18:56	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 18:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 18:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 18:56	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 18:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 18:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 18:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 18:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 18:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 18:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 18:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 18:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 18:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 18:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:56	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 18:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 18:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 18:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 18:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 18:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 18:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 18:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 18:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 18:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 18:56	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-2

Lab Sample ID: 500-146634-8

Date Collected: 06/07/18 09:15

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 18:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 18:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 18:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:56	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 18:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 18:56	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 18:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 18:56	1
Tetrachloroethene	11		1.0	0.37	ug/L			06/13/18 18:56	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 18:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 18:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 18:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 18:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 18:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 18:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 18:56	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 18:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 18:56	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 18:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 18:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 18:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 18:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124		06/13/18 18:56	1
Dibromofluoromethane	99		75 - 120		06/13/18 18:56	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		06/13/18 18:56	1
Toluene-d8 (Surr)	94		75 - 120		06/13/18 18:56	1

Client Sample ID: MW-2P

Lab Sample ID: 500-146634-9

Date Collected: 06/07/18 09:45

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/14/18 22:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/14/18 22:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/14/18 22:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/14/18 22:40	1
Bromoform	<0.48		1.0	0.48	ug/L			06/14/18 22:40	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/14/18 22:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/14/18 22:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/14/18 22:40	1
Chloroform	<0.37		2.0	0.37	ug/L			06/14/18 22:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/14/18 22:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/14/18 22:40	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-2P

Lab Sample ID: 500-146634-9

Date Collected: 06/07/18 09:45

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/14/18 22:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/14/18 22:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/14/18 22:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/14/18 22:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/14/18 22:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/14/18 22:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/14/18 22:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/14/18 22:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/14/18 22:40	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/14/18 22:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/14/18 22:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/14/18 22:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/14/18 22:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/14/18 22:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/14/18 22:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/14/18 22:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/14/18 22:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/14/18 22:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/14/18 22:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/14/18 22:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/14/18 22:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/14/18 22:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 22:40	1
Styrene	<0.39		1.0	0.39	ug/L			06/14/18 22:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 22:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/14/18 22:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/14/18 22:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/14/18 22:40	1
Toluene	<0.15		0.50	0.15	ug/L			06/14/18 22:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/14/18 22:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/14/18 22:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/14/18 22:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/14/18 22:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/14/18 22:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/14/18 22:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/14/18 22:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/14/18 22:40	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/14/18 22:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/14/18 22:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/14/18 22:40	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/14/18 22:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/14/18 22:40	1

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-2P

Date Collected: 06/07/18 09:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		06/14/18 22:40	1
Dibromofluoromethane	92		75 - 120		06/14/18 22:40	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		06/14/18 22:40	1
Toluene-d8 (Surr)	88		75 - 120		06/14/18 22:40	1

Client Sample ID: PZ-2

Date Collected: 06/07/18 10:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/14/18 23:06	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/14/18 23:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/14/18 23:06	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/14/18 23:06	1
Bromoform	<0.48		1.0	0.48	ug/L			06/14/18 23:06	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/14/18 23:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/14/18 23:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/14/18 23:06	1
Chloroform	<0.37		2.0	0.37	ug/L			06/14/18 23:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/14/18 23:06	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/14/18 23:06	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/14/18 23:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/14/18 23:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/14/18 23:06	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/14/18 23:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/14/18 23:06	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/14/18 23:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/14/18 23:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/14/18 23:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/14/18 23:06	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/14/18 23:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/14/18 23:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/14/18 23:06	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/14/18 23:06	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/14/18 23:06	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/14/18 23:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/14/18 23:06	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/14/18 23:06	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/14/18 23:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/14/18 23:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/14/18 23:06	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/14/18 23:06	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: PZ-2

Lab Sample ID: 500-146634-10

Date Collected: 06/07/18 10:45

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/14/18 23:06	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 23:06	1
Styrene	<0.39		1.0	0.39	ug/L			06/14/18 23:06	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 23:06	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/14/18 23:06	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/14/18 23:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/14/18 23:06	1
Toluene	<0.15		0.50	0.15	ug/L			06/14/18 23:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/14/18 23:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/14/18 23:06	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/14/18 23:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/14/18 23:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/14/18 23:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/14/18 23:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/14/18 23:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/14/18 23:06	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/14/18 23:06	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/14/18 23:06	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/14/18 23:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/14/18 23:06	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/14/18 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		06/14/18 23:06	1
Dibromofluoromethane	89		75 - 120		06/14/18 23:06	1
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		06/14/18 23:06	1
Toluene-d8 (Surr)	87		75 - 120		06/14/18 23:06	1

Client Sample ID: UP-MW-1

Lab Sample ID: 500-146634-11

Date Collected: 06/07/18 11:45

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	85		0.50	0.15	ug/L			06/14/18 23:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/14/18 23:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/14/18 23:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/14/18 23:33	1
Bromoform	<0.48		1.0	0.48	ug/L			06/14/18 23:33	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/14/18 23:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/14/18 23:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/14/18 23:33	1
Chloroform	<0.37		2.0	0.37	ug/L			06/14/18 23:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/14/18 23:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/14/18 23:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/14/18 23:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/14/18 23:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/14/18 23:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/14/18 23:33	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-1

Lab Sample ID: 500-146634-11

Date Collected: 06/07/18 11:45

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/14/18 23:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/14/18 23:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/14/18 23:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/14/18 23:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/14/18 23:33	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/14/18 23:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/14/18 23:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/14/18 23:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/14/18 23:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/14/18 23:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/14/18 23:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/14/18 23:33	1
Isopropylbenzene	9.7		1.0	0.39	ug/L			06/14/18 23:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/14/18 23:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/14/18 23:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
Naphthalene	42		1.0	0.34	ug/L			06/14/18 23:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
N-Propylbenzene	24		1.0	0.41	ug/L			06/14/18 23:33	1
p-Isopropyltoluene	0.98 J		1.0	0.36	ug/L			06/14/18 23:33	1
sec-Butylbenzene	1.9		1.0	0.40	ug/L			06/14/18 23:33	1
Styrene	<0.39		1.0	0.39	ug/L			06/14/18 23:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 23:33	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/14/18 23:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/14/18 23:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/14/18 23:33	1
Toluene	13		0.50	0.15	ug/L			06/14/18 23:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/14/18 23:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/14/18 23:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/14/18 23:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/14/18 23:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/14/18 23:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/14/18 23:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/14/18 23:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/14/18 23:33	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/14/18 23:33	1
1,2,4-Trimethylbenzene	39		1.0	0.36	ug/L			06/14/18 23:33	1
1,3,5-Trimethylbenzene	33		1.0	0.25	ug/L			06/14/18 23:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/14/18 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		06/14/18 23:33	1
Dibromofluoromethane	93		75 - 120		06/14/18 23:33	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		06/14/18 23:33	1
Toluene-d8 (Surr)	88		75 - 120		06/14/18 23:33	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-1

Date Collected: 06/07/18 11:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	220		5.0	1.8	ug/L			06/14/18 23:59	10
Xylenes, Total	380		10	2.2	ug/L			06/14/18 23:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124					06/14/18 23:59	10
Dibromofluoromethane	90		75 - 120					06/14/18 23:59	10
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					06/14/18 23:59	10
Toluene-d8 (Surr)	88		75 - 120					06/14/18 23:59	10

Client Sample ID: UP-MW-2

Date Collected: 06/07/18 11:00

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/15/18 00:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/15/18 00:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/15/18 00:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/15/18 00:26	1
Bromoform	<0.48		1.0	0.48	ug/L			06/15/18 00:26	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/15/18 00:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/15/18 00:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/15/18 00:26	1
Chloroform	<0.37		2.0	0.37	ug/L			06/15/18 00:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/15/18 00:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/15/18 00:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/15/18 00:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/15/18 00:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/15/18 00:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/15/18 00:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/15/18 00:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/15/18 00:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/15/18 00:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/15/18 00:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/15/18 00:26	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/15/18 00:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/15/18 00:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/15/18 00:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/15/18 00:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/15/18 00:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/15/18 00:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/15/18 00:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/15/18 00:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/15/18 00:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/15/18 00:26	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-2

Lab Sample ID: 500-146634-12

Date Collected: 06/07/18 11:00

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/15/18 00:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/15/18 00:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/15/18 00:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 00:26	1
Styrene	<0.39		1.0	0.39	ug/L			06/15/18 00:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 00:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/15/18 00:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/15/18 00:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/15/18 00:26	1
Toluene	<0.15		0.50	0.15	ug/L			06/15/18 00:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/15/18 00:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/15/18 00:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/15/18 00:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/15/18 00:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/18 00:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/15/18 00:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/15/18 00:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/15/18 00:26	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/15/18 00:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/15/18 00:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/15/18 00:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/18 00:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/15/18 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		72 - 124		06/15/18 00:26	1
Dibromofluoromethane	91		75 - 120		06/15/18 00:26	1
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		06/15/18 00:26	1
Toluene-d8 (Surr)	87		75 - 120		06/15/18 00:26	1

Client Sample ID: UP-MW-3

Lab Sample ID: 500-146634-13

Date Collected: 06/07/18 10:00

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/15/18 00:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/15/18 00:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/15/18 00:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/15/18 00:52	1
Bromoform	<0.48		1.0	0.48	ug/L			06/15/18 00:52	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/15/18 00:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/15/18 00:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/15/18 00:52	1
Chloroform	<0.37		2.0	0.37	ug/L			06/15/18 00:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/15/18 00:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/15/18 00:52	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-3

Lab Sample ID: 500-146634-13

Date Collected: 06/07/18 10:00

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/15/18 00:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/15/18 00:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/15/18 00:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/15/18 00:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/15/18 00:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/15/18 00:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/15/18 00:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/15/18 00:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/15/18 00:52	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/15/18 00:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/15/18 00:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/15/18 00:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/15/18 00:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/15/18 00:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/15/18 00:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/15/18 00:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/15/18 00:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/15/18 00:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/15/18 00:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/15/18 00:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/15/18 00:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/15/18 00:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 00:52	1
Styrene	<0.39		1.0	0.39	ug/L			06/15/18 00:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 00:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/15/18 00:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/15/18 00:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/15/18 00:52	1
Toluene	<0.15		0.50	0.15	ug/L			06/15/18 00:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/15/18 00:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/15/18 00:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/15/18 00:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/15/18 00:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/18 00:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/15/18 00:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/15/18 00:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/15/18 00:52	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/15/18 00:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/15/18 00:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/15/18 00:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/18 00:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/15/18 00:52	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-3

Date Collected: 06/07/18 10:00

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		72 - 124		06/15/18 00:52	1
Dibromofluoromethane	93		75 - 120		06/15/18 00:52	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		06/15/18 00:52	1
Toluene-d8 (Surr)	87		75 - 120		06/15/18 00:52	1

Client Sample ID: UP-MW-3-FD

Date Collected: 06/07/18 10:05

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/15/18 01:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/15/18 01:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/15/18 01:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/15/18 01:19	1
Bromoform	<0.48		1.0	0.48	ug/L			06/15/18 01:19	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/15/18 01:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/15/18 01:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/15/18 01:19	1
Chloroform	<0.37		2.0	0.37	ug/L			06/15/18 01:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/15/18 01:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/15/18 01:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/15/18 01:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/15/18 01:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/15/18 01:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/15/18 01:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/15/18 01:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/15/18 01:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/15/18 01:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/15/18 01:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/15/18 01:19	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/15/18 01:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/15/18 01:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/15/18 01:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/15/18 01:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/15/18 01:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/15/18 01:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/15/18 01:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/15/18 01:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/15/18 01:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/15/18 01:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/15/18 01:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/15/18 01:19	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-3-FD

Lab Sample ID: 500-146634-14

Date Collected: 06/07/18 10:05

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/15/18 01:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 01:19	1
Styrene	<0.39		1.0	0.39	ug/L			06/15/18 01:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 01:19	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/15/18 01:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/15/18 01:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/15/18 01:19	1
Toluene	<0.15		0.50	0.15	ug/L			06/15/18 01:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/15/18 01:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/15/18 01:19	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/15/18 01:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/15/18 01:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/18 01:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/15/18 01:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/15/18 01:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/15/18 01:19	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/15/18 01:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/15/18 01:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/15/18 01:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/18 01:19	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/15/18 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		06/15/18 01:19	1
Dibromofluoromethane	91		75 - 120		06/15/18 01:19	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		06/15/18 01:19	1
Toluene-d8 (Surr)	88		75 - 120		06/15/18 01:19	1

Client Sample ID: UP-MW-4

Lab Sample ID: 500-146634-15

Date Collected: 06/07/18 12:15

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/15/18 01:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/15/18 01:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/15/18 01:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/15/18 01:45	1
Bromoform	<0.48		1.0	0.48	ug/L			06/15/18 01:45	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/15/18 01:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/15/18 01:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/15/18 01:45	1
Chloroform	<0.37		2.0	0.37	ug/L			06/15/18 01:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/15/18 01:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/15/18 01:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/15/18 01:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/15/18 01:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/15/18 01:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/15/18 01:45	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-4

Lab Sample ID: 500-146634-15

Date Collected: 06/07/18 12:15

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/15/18 01:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/15/18 01:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/15/18 01:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/15/18 01:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/15/18 01:45	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/15/18 01:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/15/18 01:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/15/18 01:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/15/18 01:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/15/18 01:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/15/18 01:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/15/18 01:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/15/18 01:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/15/18 01:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/15/18 01:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/15/18 01:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/15/18 01:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/15/18 01:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 01:45	1
Styrene	<0.39		1.0	0.39	ug/L			06/15/18 01:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 01:45	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/15/18 01:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/15/18 01:45	1
Tetrachloroethene	15		1.0	0.37	ug/L			06/15/18 01:45	1
Toluene	<0.15		0.50	0.15	ug/L			06/15/18 01:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/15/18 01:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/15/18 01:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/15/18 01:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/15/18 01:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/18 01:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/15/18 01:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/15/18 01:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/15/18 01:45	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/15/18 01:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/15/18 01:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/15/18 01:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/18 01:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/15/18 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		72 - 124		06/15/18 01:45	1
Dibromofluoromethane	92		75 - 120		06/15/18 01:45	1
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		06/15/18 01:45	1
Toluene-d8 (Surr)	89		75 - 120		06/15/18 01:45	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-146634-16

Date Collected: 06/07/18 00:00

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/15/18 02:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/15/18 02:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/15/18 02:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/15/18 02:12	1
Bromoform	<0.48		1.0	0.48	ug/L			06/15/18 02:12	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/15/18 02:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/15/18 02:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
Chloroethane	<0.51 *		1.0	0.51	ug/L			06/15/18 02:12	1
Chloroform	<0.37		2.0	0.37	ug/L			06/15/18 02:12	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/15/18 02:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/15/18 02:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/15/18 02:12	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/15/18 02:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/15/18 02:12	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/15/18 02:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/15/18 02:12	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/15/18 02:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/15/18 02:12	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/15/18 02:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/15/18 02:12	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/15/18 02:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/15/18 02:12	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/15/18 02:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/15/18 02:12	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/15/18 02:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/15/18 02:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/15/18 02:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/15/18 02:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/15/18 02:12	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/15/18 02:12	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/15/18 02:12	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/15/18 02:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/15/18 02:12	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 02:12	1
Styrene	<0.39		1.0	0.39	ug/L			06/15/18 02:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/15/18 02:12	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/15/18 02:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/15/18 02:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/15/18 02:12	1
Toluene	<0.15		0.50	0.15	ug/L			06/15/18 02:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/15/18 02:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/15/18 02:12	1

TestAmerica Chicago

Client Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-146634-16

Date Collected: 06/07/18 00:00

Matrix: Water

Date Received: 06/08/18 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/15/18 02:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/15/18 02:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/18 02:12	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/15/18 02:12	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/15/18 02:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/15/18 02:12	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/15/18 02:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/15/18 02:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/15/18 02:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/18 02:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/15/18 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124		06/15/18 02:12	1
Dibromofluoromethane	93		75 - 120		06/15/18 02:12	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		06/15/18 02:12	1
Toluene-d8 (Surr)	87		75 - 120		06/15/18 02:12	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

GC/MS VOA

Analysis Batch: 436652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-146634-1	MW1R	Total/NA	Water	8260B	
500-146634-2	MW-3	Total/NA	Water	8260B	
500-146634-3	MW-4P	Total/NA	Water	8260B	
500-146634-4	MW-5	Total/NA	Water	8260B	
500-146634-5	MW-6	Total/NA	Water	8260B	
500-146634-6	MW-7	Total/NA	Water	8260B	
500-146634-7	MW-8	Total/NA	Water	8260B	
500-146634-8	MW-2	Total/NA	Water	8260B	
MB 500-436652/6	Method Blank	Total/NA	Water	8260B	
LCS 500-436652/7	Lab Control Sample	Total/NA	Water	8260B	
500-146634-8 MS	MW-2	Total/NA	Water	8260B	
500-146634-8 MSD	MW-2	Total/NA	Water	8260B	

Analysis Batch: 436983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-146634-9	MW-2P	Total/NA	Water	8260B	
500-146634-10	PZ-2	Total/NA	Water	8260B	
500-146634-11	UP-MW-1	Total/NA	Water	8260B	
500-146634-11 - DL	UP-MW-1	Total/NA	Water	8260B	
500-146634-12	UP-MW-2	Total/NA	Water	8260B	
500-146634-13	UP-MW-3	Total/NA	Water	8260B	
500-146634-14	UP-MW-3-FD	Total/NA	Water	8260B	
500-146634-15	UP-MW-4	Total/NA	Water	8260B	
500-146634-16	Trip Blank	Total/NA	Water	8260B	
MB 500-436983/6	Method Blank	Total/NA	Water	8260B	
LCS 500-436983/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-146634-1	MW1R	97	101	101	92
500-146634-2	MW-3	100	100	101	93
500-146634-3	MW-4P	98	99	99	94
500-146634-4	MW-5	102	96	98	93
500-146634-5	MW-6	101	96	98	93
500-146634-6	MW-7	102	98	95	93
500-146634-7	MW-8	103	97	97	94
500-146634-8	MW-2	99	99	96	94
500-146634-8 MS	MW-2	100	100	97	95
500-146634-8 MSD	MW-2	103	101	96	93
500-146634-9	MW-2P	84	92	93	88
500-146634-10	PZ-2	84	89	93	87
500-146634-11 - DL	UP-MW-1	86	90	95	88
500-146634-11	UP-MW-1	84	93	96	88
500-146634-12	UP-MW-2	85	91	94	87
500-146634-13	UP-MW-3	82	93	96	87
500-146634-14	UP-MW-3-FD	84	91	95	88
500-146634-15	UP-MW-4	84	92	96	89
500-146634-16	Trip Blank	86	93	95	87
LCS 500-436652/7	Lab Control Sample	98	96	91	96
LCS 500-436983/4	Lab Control Sample	84	90	92	89
MB 500-436652/6	Method Blank	98	97	98	92
MB 500-436983/6	Method Blank	82	90	92	89

Surrogate Legend

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

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: MB 500-436652/6

Matrix: Water

Analysis Batch: 436652

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/13/18 11:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/13/18 11:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/13/18 11:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/13/18 11:07	1
Bromoform	<0.48		1.0	0.48	ug/L			06/13/18 11:07	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/13/18 11:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/13/18 11:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/13/18 11:07	1
Chloroform	<0.37		2.0	0.37	ug/L			06/13/18 11:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/13/18 11:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/13/18 11:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/13/18 11:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/13/18 11:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/13/18 11:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/13/18 11:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/13/18 11:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/13/18 11:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/13/18 11:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/13/18 11:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/13/18 11:07	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/13/18 11:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/13/18 11:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/13/18 11:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/13/18 11:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/13/18 11:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/13/18 11:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/13/18 11:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/13/18 11:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/13/18 11:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/13/18 11:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/13/18 11:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/13/18 11:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/13/18 11:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 11:07	1
Styrene	<0.39		1.0	0.39	ug/L			06/13/18 11:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/13/18 11:07	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/13/18 11:07	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/13/18 11:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/13/18 11:07	1
Toluene	<0.15		0.50	0.15	ug/L			06/13/18 11:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/13/18 11:07	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: MB 500-436652/6
Matrix: Water
Analysis Batch: 436652

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/13/18 11:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/13/18 11:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/13/18 11:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/13/18 11:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/13/18 11:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/13/18 11:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/13/18 11:07	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/13/18 11:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/13/18 11:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/13/18 11:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/13/18 11:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/13/18 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124		06/13/18 11:07	1
Dibromofluoromethane	97		75 - 120		06/13/18 11:07	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		06/13/18 11:07	1
Toluene-d8 (Surr)	92		75 - 120		06/13/18 11:07	1

Lab Sample ID: LCS 500-436652/7
Matrix: Water
Analysis Batch: 436652

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.3		ug/L		97	70 - 120
Bromobenzene	50.0	53.1		ug/L		106	70 - 122
Bromochloromethane	50.0	50.0		ug/L		100	65 - 122
Bromodichloromethane	50.0	49.8		ug/L		100	69 - 120
Bromoform	50.0	48.9		ug/L		98	56 - 132
Bromomethane	50.0	57.2		ug/L		114	40 - 130
Carbon tetrachloride	50.0	59.5		ug/L		119	65 - 122
Chlorobenzene	50.0	48.6		ug/L		97	70 - 120
Chloroethane	50.0	47.6		ug/L		95	45 - 127
Chloroform	50.0	49.0		ug/L		98	70 - 120
Chloromethane	50.0	57.2		ug/L		114	54 - 147
2-Chlorotoluene	50.0	50.9		ug/L		102	70 - 125
4-Chlorotoluene	50.0	51.1		ug/L		102	68 - 124
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 125
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	64 - 127
Dibromochloromethane	50.0	50.6		ug/L		101	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.0		ug/L		92	56 - 123
1,2-Dibromoethane	50.0	49.4		ug/L		99	70 - 125
Dibromomethane	50.0	49.1		ug/L		98	70 - 120
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 125
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 125
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 120
Dichlorodifluoromethane	50.0	74.7		ug/L		149	40 - 150
1,1-Dichloroethane	50.0	50.2		ug/L		100	70 - 125

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: LCS 500-436652/7

Matrix: Water

Analysis Batch: 436652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	49.1		ug/L		98	68 - 127
1,1-Dichloroethene	50.0	52.5		ug/L		105	67 - 122
1,2-Dichloropropane	50.0	47.4		ug/L		95	67 - 130
1,3-Dichloropropane	50.0	46.0		ug/L		92	62 - 136
2,2-Dichloropropane	50.0	56.8		ug/L		114	58 - 129
1,1-Dichloropropene	50.0	52.9		ug/L		106	70 - 121
Ethylbenzene	50.0	51.5		ug/L		103	70 - 120
Hexachlorobutadiene	50.0	58.3		ug/L		117	51 - 150
Isopropylbenzene	50.0	54.1		ug/L		108	70 - 126
Methylene Chloride	50.0	46.5		ug/L		93	69 - 125
Methyl tert-butyl ether	50.0	43.4		ug/L		87	70 - 120
Naphthalene	50.0	50.2		ug/L		100	59 - 130
n-Butylbenzene	50.0	54.9		ug/L		110	68 - 125
N-Propylbenzene	50.0	53.2		ug/L		106	69 - 127
p-Isopropyltoluene	50.0	55.3		ug/L		111	70 - 125
sec-Butylbenzene	50.0	54.2		ug/L		108	70 - 123
Styrene	50.0	48.1		ug/L		96	70 - 120
tert-Butylbenzene	50.0	54.2		ug/L		108	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/L		100	70 - 125
1,1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	67 - 127
Tetrachloroethene	50.0	57.1		ug/L		114	70 - 128
Toluene	50.0	50.0		ug/L		100	70 - 125
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 125
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	62 - 128
1,2,3-Trichlorobenzene	50.0	53.2		ug/L		106	55 - 140
1,2,4-Trichlorobenzene	50.0	54.1		ug/L		108	66 - 127
1,1,1-Trichloroethane	50.0	61.5		ug/L		123	70 - 125
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	70 - 122
Trichloroethene	50.0	54.8		ug/L		110	70 - 125
Trichlorofluoromethane	50.0	56.9		ug/L		114	70 - 126
1,2,3-Trichloropropane	50.0	49.2		ug/L		98	50 - 133
1,2,4-Trimethylbenzene	50.0	52.3		ug/L		105	70 - 123
1,3,5-Trimethylbenzene	50.0	54.3		ug/L		109	70 - 123
Vinyl chloride	50.0	42.8		ug/L		86	64 - 126
Xylenes, Total	100	96.3		ug/L		96	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	91		75 - 126
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: 500-146634-8 MS

Matrix: Water

Analysis Batch: 436652

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.15		50.0	41.2		ug/L		82	70 - 120

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: 500-146634-8 MS

Matrix: Water

Analysis Batch: 436652

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	<0.36		50.0	49.1		ug/L		98	70 - 122
Bromochloromethane	<0.43		50.0	44.6		ug/L		89	65 - 122
Bromodichloromethane	<0.37		50.0	43.6		ug/L		87	69 - 120
Bromoform	<0.48		50.0	42.3		ug/L		85	56 - 132
Bromomethane	<0.80		50.0	50.8		ug/L		102	40 - 130
Carbon tetrachloride	<0.38		50.0	50.5		ug/L		101	65 - 122
Chlorobenzene	<0.39		50.0	42.8		ug/L		86	70 - 120
Chloroethane	<0.51		50.0	40.7		ug/L		81	45 - 127
Chloroform	<0.37		50.0	43.2		ug/L		86	70 - 120
Chloromethane	<0.32		50.0	48.4		ug/L		97	54 - 147
2-Chlorotoluene	<0.31		50.0	45.4		ug/L		91	70 - 125
4-Chlorotoluene	<0.35		50.0	45.5		ug/L		91	68 - 124
cis-1,2-Dichloroethene	<0.41		50.0	43.4		ug/L		87	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	39.3		ug/L		79	64 - 127
Dibromochloromethane	<0.49		50.0	45.3		ug/L		91	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.8		ug/L		82	56 - 123
1,2-Dibromoethane	<0.39		50.0	42.7		ug/L		85	70 - 125
Dibromomethane	<0.27		50.0	42.7		ug/L		85	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	45.2		ug/L		90	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	45.4		ug/L		91	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	43.5		ug/L		87	70 - 120
Dichlorodifluoromethane	<0.67		50.0	58.4		ug/L		117	40 - 150
1,1-Dichloroethane	<0.41		50.0	42.5		ug/L		85	70 - 125
1,2-Dichloroethane	<0.39		50.0	44.8		ug/L		90	68 - 127
1,1-Dichloroethene	<0.39		50.0	43.3		ug/L		87	67 - 122
1,2-Dichloropropane	<0.43		50.0	41.5		ug/L		83	67 - 130
1,3-Dichloropropane	<0.36		50.0	40.6		ug/L		81	62 - 136
2,2-Dichloropropane	<0.44		50.0	46.8		ug/L		94	58 - 129
1,1-Dichloropropene	<0.30		50.0	43.7		ug/L		87	70 - 121
Ethylbenzene	<0.18		50.0	43.2		ug/L		86	70 - 120
Hexachlorobutadiene	<0.45		50.0	47.4		ug/L		95	51 - 150
Isopropylbenzene	<0.39		50.0	48.3		ug/L		97	70 - 126
Methylene Chloride	<1.6		50.0	40.1		ug/L		80	69 - 125
Methyl tert-butyl ether	<0.39		50.0	38.0		ug/L		76	70 - 120
Naphthalene	<0.34		50.0	40.7		ug/L		81	59 - 130
n-Butylbenzene	<0.39		50.0	46.2		ug/L		92	68 - 125
N-Propylbenzene	<0.41		50.0	46.8		ug/L		94	69 - 127
p-Isopropyltoluene	<0.36		50.0	47.9		ug/L		96	70 - 125
sec-Butylbenzene	<0.40		50.0	47.7		ug/L		95	70 - 123
Styrene	<0.39		50.0	42.0		ug/L		84	70 - 120
tert-Butylbenzene	<0.40		50.0	48.0		ug/L		96	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	45.0		ug/L		90	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	43.9		ug/L		88	67 - 127
Tetrachloroethene	11		50.0	59.0		ug/L		97	70 - 128
Toluene	<0.15		50.0	41.9		ug/L		84	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	44.2		ug/L		88	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	39.9		ug/L		80	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	42.9		ug/L		86	55 - 140

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: 500-146634-8 MS

Matrix: Water

Analysis Batch: 436652

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	<0.34		50.0	43.5		ug/L		87	66 - 127
1,1,1-Trichloroethane	<0.38		50.0	51.5		ug/L		103	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	41.6		ug/L		83	70 - 122
Trichloroethene	<0.16		50.0	46.4		ug/L		93	70 - 125
Trichlorofluoromethane	<0.43		50.0	49.2		ug/L		98	70 - 126
1,2,3-Trichloropropane	<0.41		50.0	46.3		ug/L		93	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	46.8		ug/L		94	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	47.3		ug/L		95	70 - 123
Vinyl chloride	<0.20		50.0	34.5		ug/L		69	64 - 126
Xylenes, Total	<0.22		100	83.6		ug/L		84	70 - 125
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		72 - 124						
Dibromofluoromethane	100		75 - 120						
1,2-Dichloroethane-d4 (Surr)	97		75 - 126						
Toluene-d8 (Surr)	95		75 - 120						

Lab Sample ID: 500-146634-8 MSD

Matrix: Water

Analysis Batch: 436652

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.15		50.0	41.8		ug/L		84	70 - 120	1	20
Bromobenzene	<0.36		50.0	50.9		ug/L		102	70 - 122	3	20
Bromochloromethane	<0.43		50.0	45.7		ug/L		91	65 - 122	2	20
Bromodichloromethane	<0.37		50.0	44.6		ug/L		89	69 - 120	2	20
Bromoform	<0.48		50.0	43.2		ug/L		86	56 - 132	2	20
Bromomethane	<0.80		50.0	52.2		ug/L		104	40 - 130	3	20
Carbon tetrachloride	<0.38		50.0	52.0		ug/L		104	65 - 122	3	20
Chlorobenzene	<0.39		50.0	43.1		ug/L		86	70 - 120	1	20
Chloroethane	<0.51		50.0	41.5		ug/L		83	45 - 127	2	20
Chloroform	<0.37		50.0	43.7		ug/L		87	70 - 120	1	20
Chloromethane	<0.32		50.0	50.9		ug/L		102	54 - 147	5	20
2-Chlorotoluene	<0.31		50.0	47.2		ug/L		94	70 - 125	4	20
4-Chlorotoluene	<0.35		50.0	46.9		ug/L		94	68 - 124	3	20
cis-1,2-Dichloroethene	<0.41		50.0	43.8		ug/L		88	70 - 125	1	20
cis-1,3-Dichloropropene	<0.42		50.0	41.0		ug/L		82	64 - 127	4	20
Dibromochloromethane	<0.49		50.0	46.6		ug/L		93	68 - 125	3	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	42.8		ug/L		86	56 - 123	5	20
1,2-Dibromoethane	<0.39		50.0	44.1		ug/L		88	70 - 125	3	20
Dibromomethane	<0.27		50.0	45.1		ug/L		90	70 - 120	5	20
1,2-Dichlorobenzene	<0.33		50.0	46.6		ug/L		93	70 - 125	3	20
1,3-Dichlorobenzene	<0.40		50.0	45.9		ug/L		92	70 - 125	1	20
1,4-Dichlorobenzene	<0.36		50.0	45.1		ug/L		90	70 - 120	4	20
Dichlorodifluoromethane	<0.67		50.0	61.9		ug/L		124	40 - 150	6	20
1,1-Dichloroethane	<0.41		50.0	43.6		ug/L		87	70 - 125	3	20
1,2-Dichloroethane	<0.39		50.0	46.6		ug/L		93	68 - 127	4	20
1,1-Dichloroethene	<0.39		50.0	44.3		ug/L		89	67 - 122	2	20

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: 500-146634-8 MSD

Matrix: Water

Analysis Batch: 436652

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	<0.43		50.0	42.9		ug/L		86	67 - 130	3	20
1,3-Dichloropropane	<0.36		50.0	42.1		ug/L		84	62 - 136	3	20
2,2-Dichloropropane	<0.44		50.0	48.9		ug/L		98	58 - 129	4	20
1,1-Dichloropropene	<0.30		50.0	43.3		ug/L		87	70 - 121	1	20
Ethylbenzene	<0.18		50.0	43.8		ug/L		88	70 - 120	1	20
Hexachlorobutadiene	<0.45		50.0	48.5		ug/L		97	51 - 150	2	20
Isopropylbenzene	<0.39		50.0	49.3		ug/L		99	70 - 126	2	20
Methylene Chloride	<1.6		50.0	40.7		ug/L		81	69 - 125	1	20
Methyl tert-butyl ether	<0.39		50.0	39.0		ug/L		78	70 - 120	3	20
Naphthalene	<0.34		50.0	43.9		ug/L		88	59 - 130	8	20
n-Butylbenzene	<0.39		50.0	46.8		ug/L		94	68 - 125	1	20
N-Propylbenzene	<0.41		50.0	47.9		ug/L		96	69 - 127	2	20
p-Isopropyltoluene	<0.36		50.0	48.5		ug/L		97	70 - 125	1	20
sec-Butylbenzene	<0.40		50.0	48.3		ug/L		97	70 - 123	1	20
Styrene	<0.39		50.0	42.3		ug/L		85	70 - 120	1	20
tert-Butylbenzene	<0.40		50.0	48.7		ug/L		97	70 - 121	1	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	43.9		ug/L		88	70 - 125	3	20
1,1,1,2,2-Tetrachloroethane	<0.40		50.0	45.4		ug/L		91	67 - 127	3	20
Tetrachloroethene	11		50.0	58.4		ug/L		96	70 - 128	1	20
Toluene	<0.15		50.0	42.3		ug/L		85	70 - 125	1	20
trans-1,2-Dichloroethene	<0.35		50.0	44.8		ug/L		90	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	40.9		ug/L		82	62 - 128	3	20
1,2,3-Trichlorobenzene	<0.46		50.0	46.0		ug/L		92	55 - 140	7	20
1,2,4-Trichlorobenzene	<0.34		50.0	46.5		ug/L		93	66 - 127	7	20
1,1,1-Trichloroethane	<0.38		50.0	53.4		ug/L		107	70 - 125	4	20
1,1,2-Trichloroethane	<0.35		50.0	43.0		ug/L		86	70 - 122	4	20
Trichloroethene	<0.16		50.0	47.5		ug/L		95	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	50.1		ug/L		100	70 - 126	2	20
1,2,3-Trichloropropane	<0.41		50.0	49.3		ug/L		99	50 - 133	6	20
1,2,4-Trimethylbenzene	<0.36		50.0	47.1		ug/L		94	70 - 123	1	20
1,3,5-Trimethylbenzene	<0.25		50.0	48.5		ug/L		97	70 - 123	2	20
Vinyl chloride	<0.20		50.0	36.8		ug/L		74	64 - 126	7	20
Xylenes, Total	<0.22		100	84.0		ug/L		84	70 - 125	0	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	103		72 - 124
Dibromofluoromethane	101		75 - 120
1,2-Dichloroethane-d4 (Surr)	96		75 - 126
Toluene-d8 (Surr)	93		75 - 120

Lab Sample ID: MB 500-436983/6

Matrix: Water

Analysis Batch: 436983

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/14/18 22:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/14/18 22:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/14/18 22:14	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: MB 500-436983/6
Matrix: Water
Analysis Batch: 436983

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/14/18 22:14	1
Bromoform	<0.48		1.0	0.48	ug/L			06/14/18 22:14	1
Bromomethane	<0.80		2.0	0.80	ug/L			06/14/18 22:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/14/18 22:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/14/18 22:14	1
Chloroform	<0.37		2.0	0.37	ug/L			06/14/18 22:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/14/18 22:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/14/18 22:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/14/18 22:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/14/18 22:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/14/18 22:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/14/18 22:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/14/18 22:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/14/18 22:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/14/18 22:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/14/18 22:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/14/18 22:14	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			06/14/18 22:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/14/18 22:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/14/18 22:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/14/18 22:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/14/18 22:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/14/18 22:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/14/18 22:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/14/18 22:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/14/18 22:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/14/18 22:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/14/18 22:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/14/18 22:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/14/18 22:14	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 22:14	1
Styrene	<0.39		1.0	0.39	ug/L			06/14/18 22:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/14/18 22:14	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/14/18 22:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/14/18 22:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/14/18 22:14	1
Toluene	<0.15		0.50	0.15	ug/L			06/14/18 22:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/14/18 22:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/14/18 22:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/14/18 22:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/14/18 22:14	1

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: MB 500-436983/6
Matrix: Water
Analysis Batch: 436983

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/14/18 22:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/14/18 22:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/14/18 22:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/14/18 22:14	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			06/14/18 22:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/14/18 22:14	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/14/18 22:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/14/18 22:14	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/14/18 22:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		72 - 124		06/14/18 22:14	1
Dibromofluoromethane	90		75 - 120		06/14/18 22:14	1
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		06/14/18 22:14	1
Toluene-d8 (Surr)	89		75 - 120		06/14/18 22:14	1

Lab Sample ID: LCS 500-436983/4
Matrix: Water
Analysis Batch: 436983

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.8		ug/L		102	70 - 120
Bromobenzene	50.0	49.9		ug/L		100	70 - 122
Bromochloromethane	50.0	52.5		ug/L		105	65 - 122
Bromodichloromethane	50.0	51.1		ug/L		102	69 - 120
Bromoform	50.0	58.2		ug/L		116	56 - 132
Bromomethane	50.0	62.5		ug/L		125	40 - 130
Carbon tetrachloride	50.0	55.0		ug/L		110	65 - 122
Chlorobenzene	50.0	44.8		ug/L		90	70 - 120
Chloroethane	50.0	65.0	*	ug/L		130	45 - 127
Chloroform	50.0	48.2		ug/L		96	70 - 120
Chloromethane	50.0	56.3		ug/L		113	54 - 147
2-Chlorotoluene	50.0	48.0		ug/L		96	70 - 125
4-Chlorotoluene	50.0	47.4		ug/L		95	68 - 124
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 125
cis-1,3-Dichloropropene	50.0	46.1		ug/L		92	64 - 127
Dibromochloromethane	50.0	54.4		ug/L		109	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	56 - 123
1,2-Dibromoethane	50.0	48.4		ug/L		97	70 - 125
Dibromomethane	50.0	50.4		ug/L		101	70 - 120
1,2-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 125
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 125
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 120
Dichlorodifluoromethane	50.0	67.2		ug/L		134	40 - 150
1,1-Dichloroethane	50.0	51.4		ug/L		103	70 - 125
1,2-Dichloroethane	50.0	50.4		ug/L		101	68 - 127
1,1-Dichloroethene	50.0	52.8		ug/L		106	67 - 122
1,2-Dichloropropane	50.0	51.9		ug/L		104	67 - 130

TestAmerica Chicago

QC Sample Results

Client: SCS Engineers
 Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

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

Lab Sample ID: LCS 500-436983/4
Matrix: Water
Analysis Batch: 436983

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	46.5		ug/L		93	62 - 136
2,2-Dichloropropane	50.0	41.3		ug/L		83	58 - 129
1,1-Dichloropropene	50.0	47.8		ug/L		96	70 - 121
Ethylbenzene	50.0	48.9		ug/L		98	70 - 120
Hexachlorobutadiene	50.0	42.5		ug/L		85	51 - 150
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 126
Methylene Chloride	50.0	50.1		ug/L		100	69 - 125
Methyl tert-butyl ether	50.0	47.1		ug/L		94	70 - 120
Naphthalene	50.0	48.5		ug/L		97	59 - 130
n-Butylbenzene	50.0	47.2		ug/L		94	68 - 125
N-Propylbenzene	50.0	47.8		ug/L		96	69 - 127
p-Isopropyltoluene	50.0	46.1		ug/L		92	70 - 125
sec-Butylbenzene	50.0	48.6		ug/L		97	70 - 123
Styrene	50.0	48.8		ug/L		98	70 - 120
tert-Butylbenzene	50.0	44.7		ug/L		89	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	67 - 127
Tetrachloroethene	50.0	49.6		ug/L		99	70 - 128
Toluene	50.0	47.5		ug/L		95	70 - 125
trans-1,2-Dichloroethene	50.0	53.8		ug/L		108	70 - 125
trans-1,3-Dichloropropene	50.0	44.2		ug/L		88	62 - 128
1,2,3-Trichlorobenzene	50.0	47.3		ug/L		95	55 - 140
1,2,4-Trichlorobenzene	50.0	46.0		ug/L		92	66 - 127
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	70 - 125
1,1,2-Trichloroethane	50.0	49.0		ug/L		98	70 - 122
Trichloroethene	50.0	51.4		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	50.3		ug/L		101	70 - 126
1,2,3-Trichloropropane	50.0	51.9		ug/L		104	50 - 133
1,2,4-Trimethylbenzene	50.0	48.1		ug/L		96	70 - 123
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	70 - 123
Vinyl chloride	50.0	55.6		ug/L		111	64 - 126
Xylenes, Total	100	95.0		ug/L		95	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	84		72 - 124
Dibromofluoromethane	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	92		75 - 126
Toluene-d8 (Surr)	89		75 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW1R

Date Collected: 06/06/18 10:50

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 15:43	JJH	TAL CHI

Client Sample ID: MW-3

Date Collected: 06/06/18 12:20

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 16:11	JJH	TAL CHI

Client Sample ID: MW-4P

Date Collected: 06/06/18 11:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 16:38	JJH	TAL CHI

Client Sample ID: MW-5

Date Collected: 06/06/18 12:45

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 17:06	JJH	TAL CHI

Client Sample ID: MW-6

Date Collected: 06/06/18 14:15

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 17:34	JJH	TAL CHI

Client Sample ID: MW-7

Date Collected: 06/06/18 15:00

Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 18:01	JJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: MW-8
Date Collected: 06/06/18 15:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 18:28	JJH	TAL CHI

Client Sample ID: MW-2
Date Collected: 06/07/18 09:15
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436652	06/13/18 18:56	JJH	TAL CHI

Client Sample ID: MW-2P
Date Collected: 06/07/18 09:45
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/14/18 22:40	JJH	TAL CHI

Client Sample ID: PZ-2
Date Collected: 06/07/18 10:45
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/14/18 23:06	JJH	TAL CHI

Client Sample ID: UP-MW-1
Date Collected: 06/07/18 11:45
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/14/18 23:33	JJH	TAL CHI
Total/NA	Analysis	8260B	DL	10	436983	06/14/18 23:59	JJH	TAL CHI

Client Sample ID: UP-MW-2
Date Collected: 06/07/18 11:00
Date Received: 06/08/18 09:15

Lab Sample ID: 500-146634-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/15/18 00:26	JJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Client Sample ID: UP-MW-3

Lab Sample ID: 500-146634-13

Date Collected: 06/07/18 10:00

Matrix: Water

Date Received: 06/08/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/15/18 00:52	JJH	TAL CHI

Client Sample ID: UP-MW-3-FD

Lab Sample ID: 500-146634-14

Date Collected: 06/07/18 10:05

Matrix: Water

Date Received: 06/08/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/15/18 01:19	JJH	TAL CHI

Client Sample ID: UP-MW-4

Lab Sample ID: 500-146634-15

Date Collected: 06/07/18 12:15

Matrix: Water

Date Received: 06/08/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/15/18 01:45	JJH	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-146634-16

Date Collected: 06/07/18 00:00

Matrix: Water

Date Received: 06/08/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436983	06/15/18 02:12	JJH	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: MOM Partnership - 25211228.72

TestAmerica Job ID: 500-146634-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Robert Langdon Bill To (optional) SAMME
 Contact: Robert Langdon Contact: SAMME
 Company: SCS Engineers Company: _____
 Address: 2830 Dairy Drive Address: _____
Madison, WI 53718 Address: _____
 Phone: 608-216-7329 Phone: _____
 Fax: _____ Fax: _____
 E-Mail: RLangdon@scsengineers.com PSW/Reference# _____

Chain of Custody Record

Lab Job #: 500-146634

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 1.8 → 3.3

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key
SCS Engineers		25211228.72		1						
Project Name		Lab Project #		Date		Time		# of Containers		Comments
MOM Partnership								JUGS		
Project Location/State		Lab PM		Date		Time		# of Containers		Comments
WI								JUGS		
Sampler		Lab PM		Date		Time		# of Containers		Comments
Nate Harris								JUGS		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
1		MW1R	6-6-18	1050	3	W	X			
2		MW-3		1220	3	W	X			
3		MW-4P		1145	3	W	X			
4		MW-5		1245	3	W	X			
5		MW-6		1415	3	W	X			
6		MW-7		1500	3	W	X			
7		MW-8		1515	3	W	X			
8		MW-2		6/7/18	915	3	W	X		
9		MW-2P		6/7/18	945	3	W	X		
10		PZ-2	6/7/18	1045	3	W	X			



500-146634 COC

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Nate Harris</u>	Company <u>SCS</u>	Date <u>6/7/18</u>	Time <u>1430</u>	Received By <u>Julie Sandy</u>	Company <u>TACTE</u>	Date <u>06/08/18</u>	Time <u>0915</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier

Shipped FX Priority

Hand Delivered

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Robert Langdon
Contact: Robert Langdon
Company: SCS Engineers
Address: 2830 Dairy Drive
Address: Madison, WI 53718
Phone: 608-216-7329
Fax: _____
E-Mail: R.Langdon@SCSEngineers.com

Bill To (optional) _____
Contact: SAAMIE
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____

Chain of Custody Record

Lab Job #: 500-146634
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: 1.9 ± 3.3

Client		Client Project #		Preservative									Preservative Key 1. HCL; Cool to 4° 2. H2SO4; Cool to 4° 3. HNO3; Cool to 4° 4. NaOH; Cool to 4° 5. NaOH/Zn; Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Parameter									
Project Location/State		Lab PM											
Sampler													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix					Comments		
			Date	Time									
11		UP-MW-1	6/7/18	1145	3	W	X						
12		UP-MW-2		1100	3	W	X						
13		UP-MW-3		1000	3	W	X						
14		UP-MW-3-FI		1005	3	W	X						
15		UP-MW-4		1215	3	W	X						
16		Trip Blank	-	-	1	W	X						

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Robert Langdon</u>	Company: <u>SCS</u>	Date: <u>6/7/18</u>	Time: <u>1430</u>	Received By: <u>Sam Sanchez</u>	Company: <u>TAAMIE</u>	Date: <u>06/08/18</u>	Time: <u>0915</u>
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____

Lab Courier: _____
Shipped: FX Priority
Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
Lab Comments: _____

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-146634-1

Login Number: 146634

List Source: TestAmerica Chicago

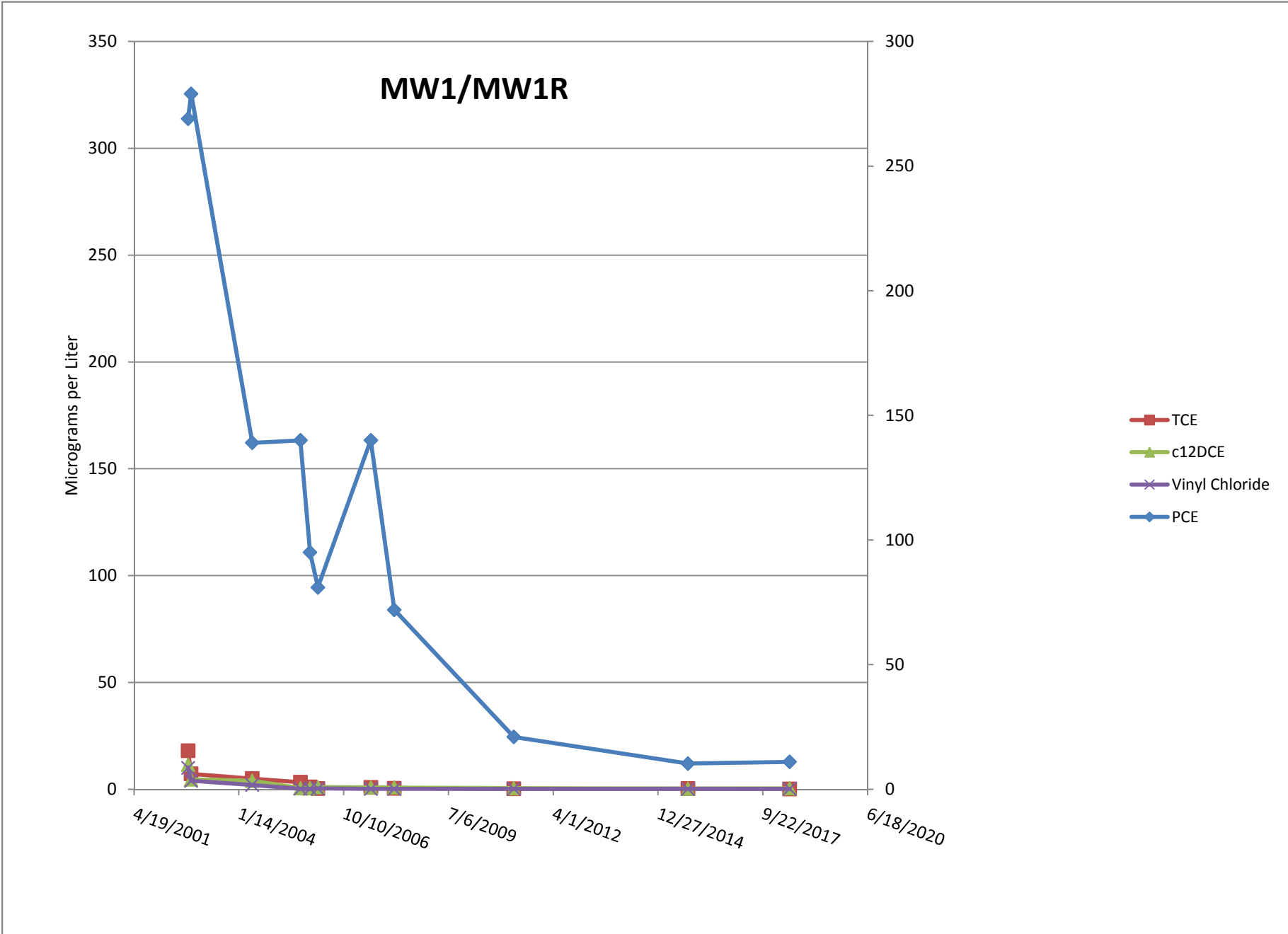
List Number: 1

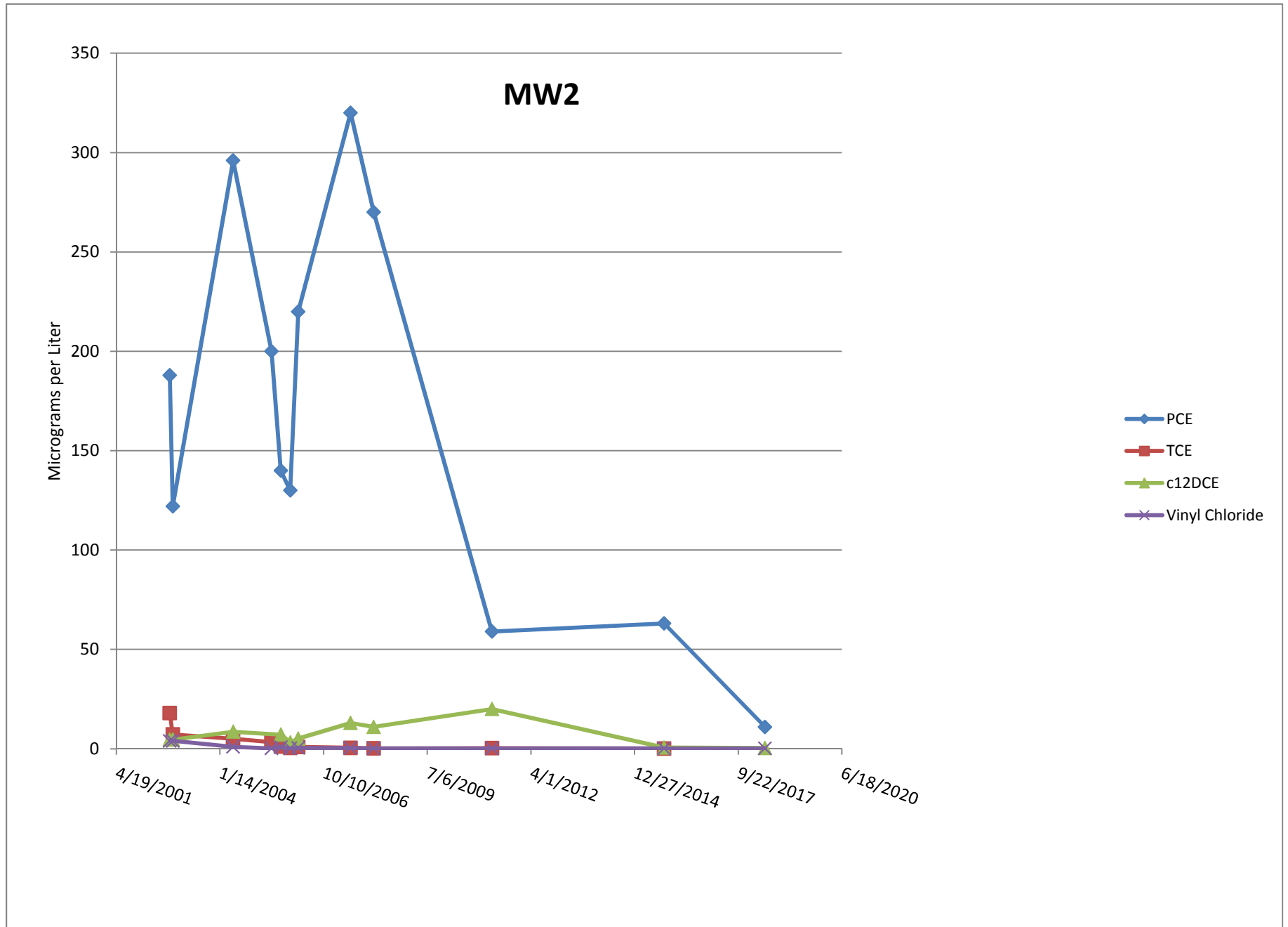
Creator: Sanchez, Ariel M

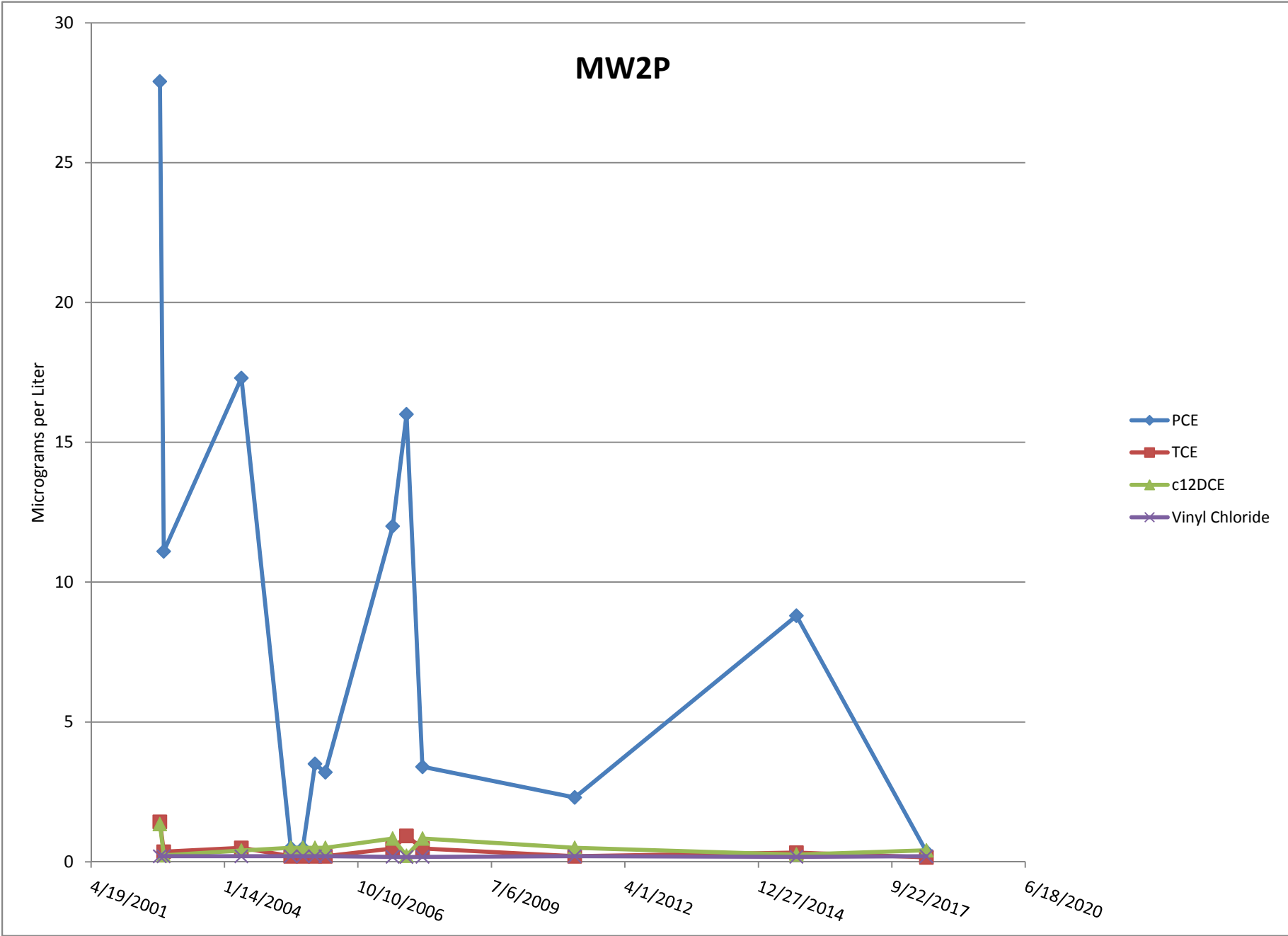
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

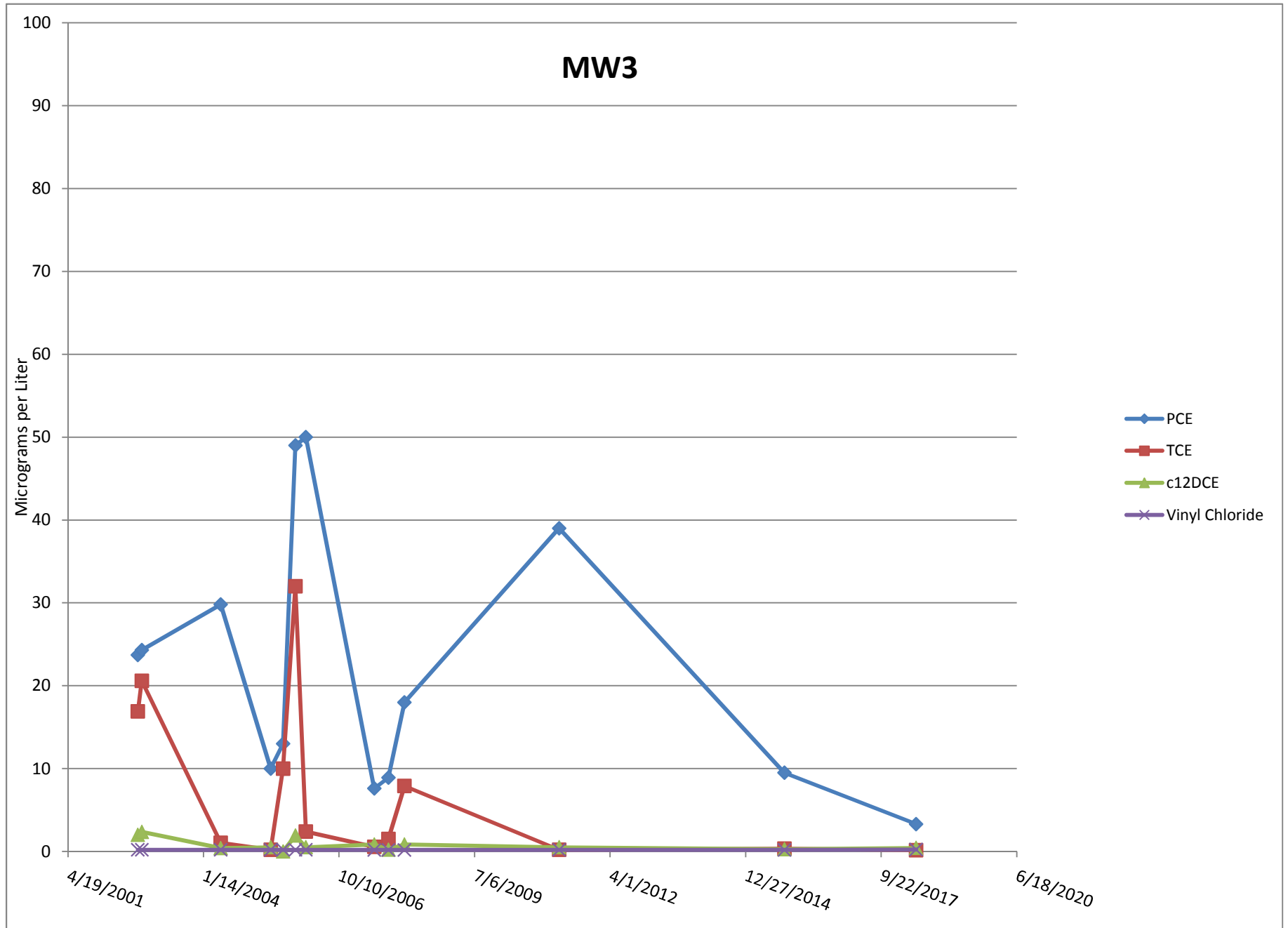
APPENDIX F

Groundwater Concentration Plots

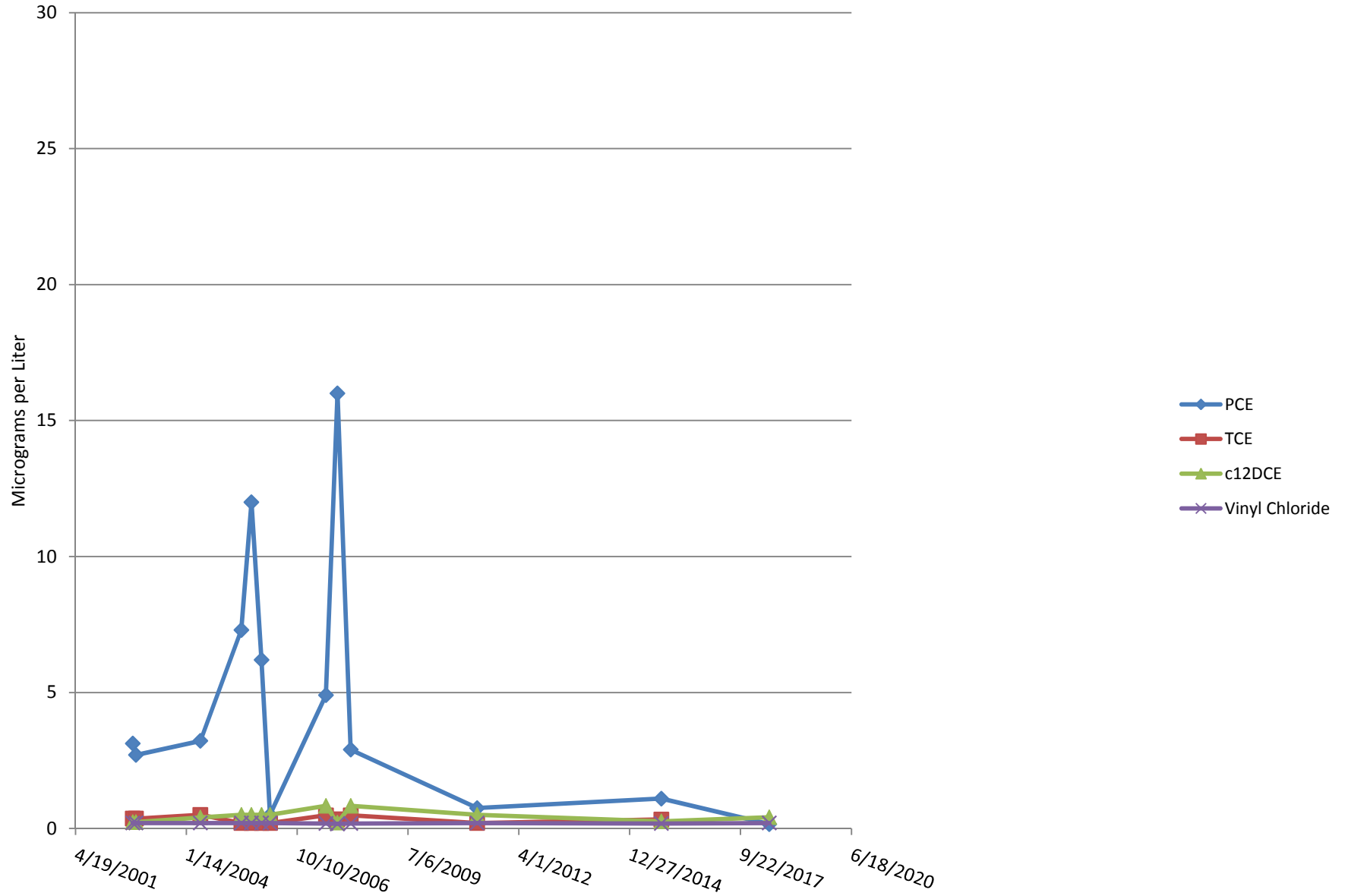




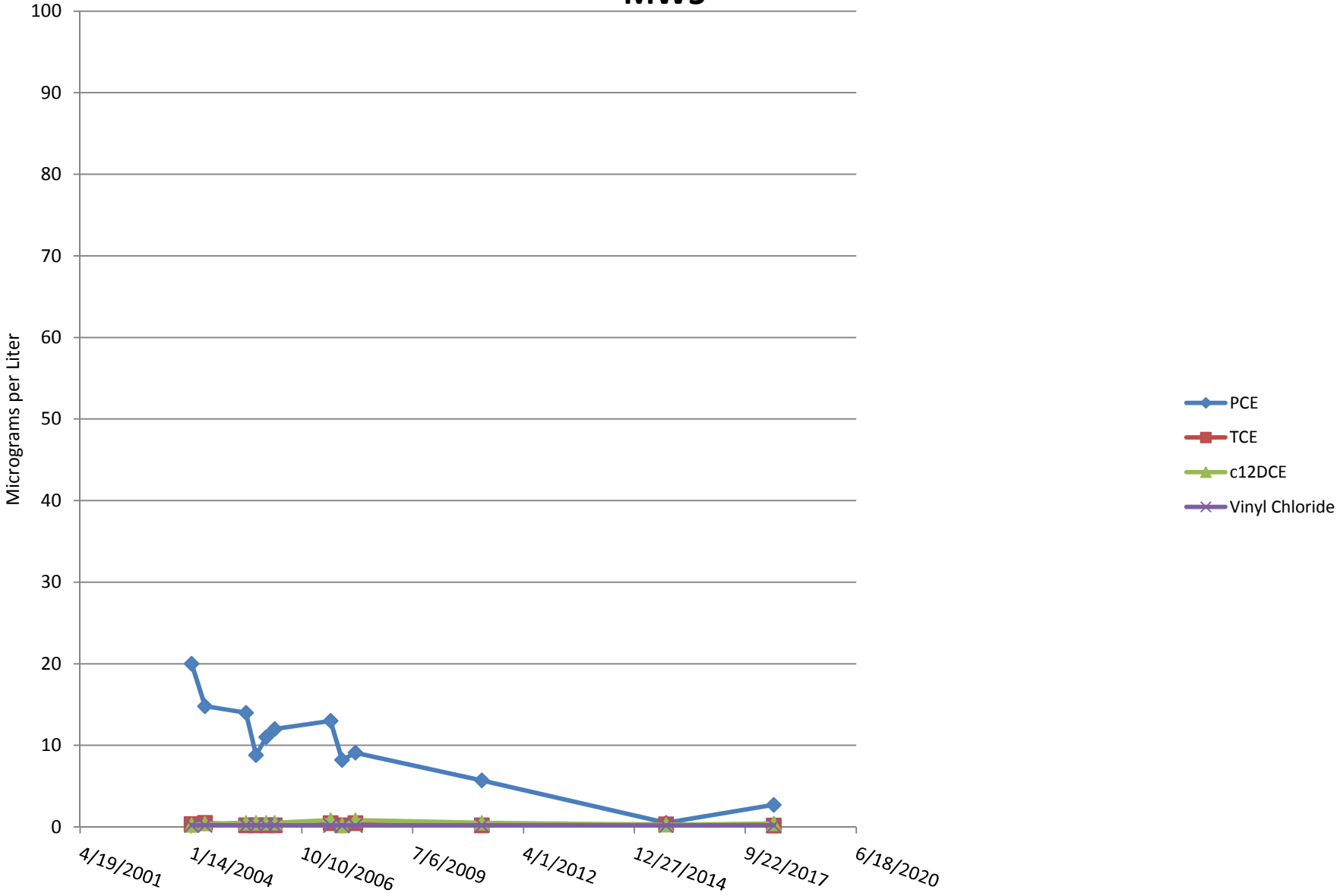




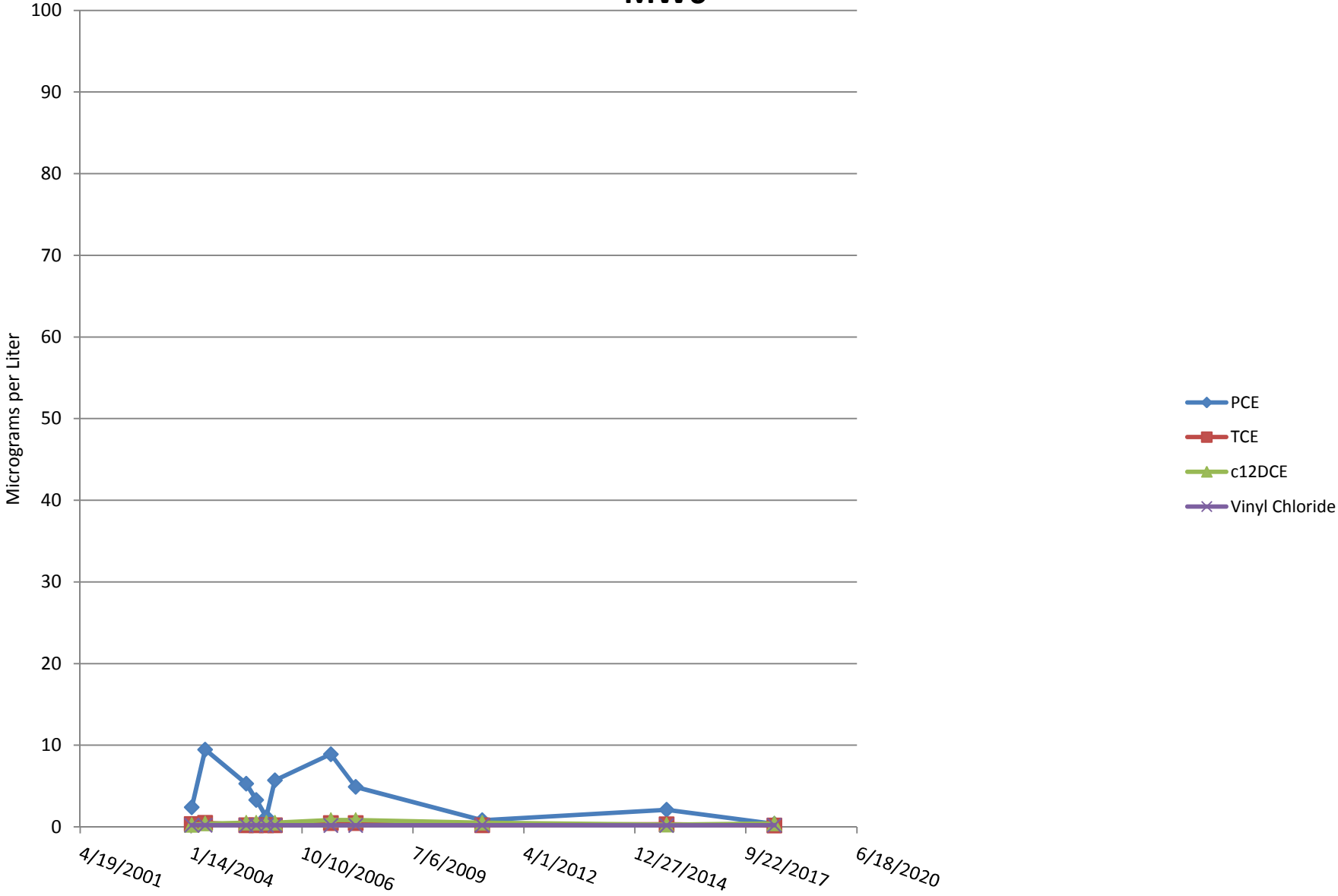
MW4P



MW5



MW6



UPMW4

