December 13, 2018
File No. 25218118.00

Mr. Jason Lowery
Wisconsin Department of Natural Resources
101 S. Webster Street
Madison, WI 53707

Subject: Groundwater Monitoring Report for Keck Farm
Town of Watertown, Jefferson County
BRRTS No. 02-28-000945
WDNR Contract No. 37000-0000008175

Dear Mr. Lowery:

SCS Engineers (SCS) is providing this groundwater monitoring report for the Keck Farm site (Site) in accordance with the contract referenced above and associated scope of work (SOW) for the project. The location of the Site and groundwater monitoring wells are shown on **Figure 1**, the Site Plan.

INTRODUCTION

The SOW for the groundwater sampling phase of the project included the following tasks:

- Obtaining water level measurements at 46 groundwater monitoring wells
- Collecting samples for analysis of volatile organic compounds (VOCs) from 20 of those 46 wells
- Collecting a sample from a private well for analysis of VOCs
- Preparing this groundwater monitoring report

DEVIATIONS FROM SCOPE OF WORK (SOW)

Groundwater monitoring was performed in October 2018 consistent with the approved August 2018 Quality Assurance Plan (QAP) and SOW with the following exceptions:

- Monitoring well MW-11D could not be sampled as a submersible electric (i.e. Grundfos) pump remains stuck in the well. The 2-inch-diameter stainless steel well casing appears to out of plumb (i.e., kinked) at or slightly above the top of the well screen. Several attempts have been made to try and remove the pump with the most recent attempt in November 2018. As discussed previously, SCS is currently evaluating other options and will contact Wisconsin Department of Natural Resources (WDNR) prior to proceeding with additional pump removal attempts. The inability to collect a sample from MW-11D is not expected to significantly affect the interpretation of the magnitude or extent of contamination at the site as there are other "D" wells in the area that were sampled.

- Water levels could not be measured at wells MW-12D or MW-13C due to obstructions in these wells. The obstructions were documented in SCS's October 16, 2018 Monitoring

Well Redevelopment Documentation letter. The inability to obtain water levels at these monitoring wells is not expected to significantly affect the interpretation of groundwater flow in the area as there are other monitoring points in the vicinity.

- Two field blanks (FBs) for this sampling event were inadvertently not prepared by SCS personnel. Given the nature and extent of contamination at the Site, the lack of FB samples is not expected to significantly affect the interpretation of the data.

GROUNDWATER SAMPLING

Groundwater sampling methods for the October 2018 sampling are summarized below. Groundwater sampling field sheets are provided in Attachment A. Groundwater and quality control (QC) samples were submitted to TestAmerica Laboratories, Inc. of University Park, Illinois, for laboratory analysis of VOCs. Laboratory reports are included in Attachment B.

Monitoring Wells

The depth to water measurements for site monitoring wells were obtained by SCS personnel on October 18, 2018. SCS personnel measured field parameters and collected groundwater samples from the monitoring wells on October 18 and 29, 2018.

Monitoring wells MW-7, MW-8, and MW-9 were purged dry and sampled with dedicated bailers. The remaining monitoring wells were sampled using a submersible electric pump and low-flow sampling methods.

Private Water Supply Well

SCS collected a groundwater sample on October 18, 2018, from the private well (PW-16) for the residence at N8957 West Road. The sample was collected at an outside tap, which the resident identified as the sampling point from which prior samples had been taken. The sample was collected after allowing the water to run for a minimum of 10 minutes. The sample results were transmitted to the owner and the WDNR by letters dated November 9, 2018.

WASTE MANAGEMENT

Monitoring well purge water generated during sampling was combined with water generated in September 2018 during monitoring well re-development work. The water was contained in five 275-gallon plastic totes and stored in the former air stripper building at the Site. Samples were collected from each tote and analyzed for VOCs for waste characterization purposes.

Water in a tote where the concentration of each individual VOC was below the level established as hazardous by the Toxicity Characteristic Leaching Procedure (TCLP) (i.e., Totes 2, 4, and 6) was transported to the Madison Metropolitan Sewerage District (MMSD) for disposal. Waste characterization sample results and non-hazardous disposal documentation are included in Attachment C. With input from WDNR, SCS plans to coordinate transportation and disposal of the remaining wastewater in the spring of 2019.

FINDINGS

Groundwater Analytical Results

Groundwater sample results from the October 2018 event for site monitoring wells and the above-noted private well (PW-16) are included on the historical data summary in Table 1. The results from the October 2018 sampling event that exceeded a concentration established as an Enforcement Standard (ES) in Chapter NR140 of the Wisconsin Administrative Code (Wis. Adm. Code) are summarized in Table 2.

Trichloroethylene (TCE) was the compound that was reported most frequently and at the highest concentration in the samples from the groundwater monitoring wells. TCE was identified at concentrations above the ES (5 micrograms per liter [ug/L]) in 16 of the 19 samples, at concentrations up to 100,000 ug/L (MW-9). TCE was quantified at concentrations greater than 100 times the ES (500 ug/L) in 8 of the 19 samples from the groundwater monitoring wells during this sampling period.

Vinyl chloride (VC) was identified at concentrations above the ES (0.2 ug/L) in 11 of the 19 samples, at concentrations up to 480 ug/L (MW-44D). VC was quantified at concentrations greater than 100 times the ES (20 ug/L) in 5 of the 19 samples from the groundwater monitoring wells during this sampling period.

Cis-1,2 dichloroethene (cis-1,2-DCE) was identified at concentrations above the ES (70 ug/L) in 8 of the 19 samples, at concentrations up to 82,000 ug/L (MW-19C). Cis-1,2-DCE was quantified at concentrations greater than 100 times the ES (7,000 ug/L) in 2 of the 19 samples from the groundwater monitoring wells during this sampling period.

Trans-1,2 dichloroethene (trans-1,2-DCE) was identified at concentrations above the ES (100 ug/L) in 4 of the 19 samples, at concentrations up to 330 ug/L (MW-1C). Trans-1,2-DCE was not quantified at concentrations greater than 100 times the ES (10,000 ug/L) in any of the samples from the groundwater monitoring wells during this sampling period.

Other contaminants were reported in the samples at concentrations above a preventive action limit (PAL) or ES, but those compounds were identified less frequently and at lower concentrations.

The approximate extents of groundwater contamination exceeding ESs and 100 times ESs are shown on Figure 2. The extents shown do not take into account the site history which included several areas of waste disposal and may be limited by the locations where wells were installed and/or sampled.

Private Well Sample

TCE was reported in the sample from the private well for the residence located at N8957 West Road, approximately 0.5 miles northwest of the Site, however the concentration (0.21 ug/L) did not exceed 0.5 ug/L - the concentration established as the PAL for TCE. Despite collecting the sample from an outside tap which was reportedly the sample point utilized in the past, the temperature of the water was higher than expected (41.3 degrees Celsius) and the temperature did not decrease after running the water for a minimum of 10 minutes. The VOC concentrations in the sample could be affected by the elevated water temperature.

Quality Control

Other than noted below, all samples were received in good condition at the laboratory, were properly preserved, were within temperature requirements, and analyzed within holding time requirements.

The laboratory noted that several VOC vials were received with headspace in the sample container. In that multiple vials of sample were collected, there was adequate sample volume (in unaffected vials) to perform the analysis. The laboratory also noted that the pH of the private well sample indicated that the sample may not have been properly preserved. The pH is not likely an issue as the sample was analyzed by the laboratory within 14 days of collection. The pH and headspaces may be related to reaction of sample preservative (hydrochloric acid) with sediment in the samples.

Low concentrations of methylene chloride (dichloromethane) and acetone detected in some samples are likely laboratory artifacts as these constituents are known laboratory contaminants.

Several samples were appropriately diluted by the laboratory to bring the concentration of the target analytes into the calibration range of the instrument; this results in an increase in the detection and reporting limits associated with the diluted samples. This is standard practice and is not expected to affect the interpretation of the data.

Except for the FBs, QC samples were collected and analyzed in accordance with the QAP. The results from analysis of the QC samples do not indicate any significant issues with sample contamination. The unqualified results from analysis of duplicate samples indicate relatively good reproducibility in terms of compounds identified and quantification (i.e., within 10 percent), except that the TCE results from the samples at MW-28D differed by more than 20 percent (150 and 190 ug/L).

Groundwater Flow

Groundwater elevation data from the October 2018 sampling event is provided in Table 3. Groundwater flow maps, based on water levels at site water table wells and bedrock wells are provided as Figure 3 and Figure 4. Groundwater flow at the water table appears to follow site topography with flow to the west, south, and east from the area near groundwater monitoring well MW-15. Groundwater flow in bedrock at the site appears to be generally to the east.

SUMMARY

SCS completed the October 2018 groundwater sampling activities consistent with the QAP, with the exceptions of collection of FBs, and sampling or water level measurement for wells MW-11D, MW-12D, and MW-13C, which could not be sampled/measured due to obstructions in these wells. The deviations are not expected to significantly influence the findings.

Analysis of results from laboratory and field QC samples indicates that the data is expected to be acceptable for use.

The October 2018 groundwater monitoring results show that several VOCs remain in groundwater at concentrations in excess of NR 140 ESs at a number of site monitoring wells, and that TCE is present at a concentration below the PAL in the private water supply well for the residence at N8957 West Road.

Groundwater flow at the water table appears to follow site topography with flow to the west, south, and east from the area near groundwater monitoring well MW-15, while groundwater flow in the bedrock across the Site appears to be generally toward the east.

As previously approved with the WDNR, SCS plans to perform the second and final groundwater monitoring event included in the assigned SOW in the spring of 2019. SCS will assess alternate sampling locations for the designated private well prior to collecting the second sample and obtain the subsequent sample from somewhere other than the outside tap if warranted.

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

Sincerely,

Robert Langdon
Senior Project Manager
SCS Engineers

Michael J. Prattke
Division Leader
SCS Engineers

Eric Oelkers, PG
Project Hydrogeologist
SCS Engineers

REL/AJR/MP/EO

Attachments: Table 1 – Groundwater Analytical Results Summary – VOCs
Table 2 – Summary of ES Exceedances
Table 3 – Water Level Summary
Figure 1 – Site Plan
Figure 2 – Groundwater Exceedances Map – October 2018
Figure 3 – Water Table Elevation Contour Map – October 2018
Figure 4 – Bedrock Groundwater Elevation Contour Map – October 2018
Attachment A – Groundwater Sampling Field Sheets
Attachment B – Groundwater Sample Laboratory Reports
Attachment C – Waste Disposal Documentation

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Tables

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-1C	5/24/1989	--	NA	**5**	<20	11.5	<5	**8.2**	NA	*53.4*	<5	NA	**2,237**	15.4	<5	**12.6**	**2,904**	**10.4**	<5	
	10/24/1989	--	NA	<50	<200	<50	<50	<100	NA	<100	<100	NA	**1,030**	<50	<50	<50	**3,990**	<20	<100	
	1/10/1990	--	NA	<50	<200	<50	<50	<100	NA	<100	<100	NA	**456**	<50	<50	<50	**2,300**	<200	<100	
	4/24/1990	--	NA	<125	<1,625	<125	<125	<125	NA	<125	<125	NA	**89.7**	<125	<125	<125	**4,160**	<125	<125	
	7/18/1990	--	NA	<250	<1,000	<250	<250	<500	NA	<500	<500	NA	**601**	<250	<250	<250	**5,110**	<100	<500	
	10/18/2000	--	<30	<5	NA	6 J	NA	<5	*67*	<5	<5	NA	<10	<5	--	<5	**7,500**	NA	<5	
	11/21/2008	--	ND	ND	ND	ND	ND	ND	**12,400**	**230**	ND	ND	ND	ND	ND		**2,050**	ND	ND	ND
	2/23/2009	--	ND	ND	ND	ND	ND	ND	**9,180**	ND	ND	ND	**329**	ND	ND		**10,000**	ND	ND	ND
	10/18/2018	--	<17	*3.9* J1	<21	<4.1	<3.9	**8.7** J1	**2,500**	**330**	2.2 J1	<22	<16	1.7 J1	5.8 J1	**17**	**12,000**	**63**	3.8 J1	Chloroform **6.5** J1 Dichlorodifluoromethane 8.0 J1
MW-2	5/25/1989	--	NA	<5	<5	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	
	10/23/1989	--	NA	<1	<2	<0.5	<0.5	<1	NA	<1	1.92	NA	**6.07**	<0.5	<0.5	<0.5	*0.5*	<2	<1	
	1/9/1990	--	NA	<0.5	<2	<0.5	<0.5	<1	NA	<1	<1	NA	<1	<0.5	<0.5	<0.5	<0.5	<2	<1	
	4/24/1990	--	NA	<5	<65	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	
	7/11/1990	--	NA	<0.2	<2	<0.5	<0.5	<1	NA	<1	<1	NA	<1	<0.5	<0.5	<0.5	*2.37*	<2	<1	
	10/18/2000	--	25	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**46**	NA	<1	
MW-3	5/25/1989	--	NA	<50	<200	<50	<50	<50	NA	<50	**1,459**	NA	<50	*506*	<50	<50	**201,000**	<50	**5,200**	
	10/25/1989	--	NA	<5,000	<20,000	<5,000	<5,000	<10,000	NA	<10,000	<10,000	NA	**39,300**	**6,000**	<5,000	<5,000	**162,000**	<20,000	<10,000	
	1/11/1990	--	NA	<2,000	<20,000	<5,000	<5,000	<10,000	NA	<10,000	<10,000	NA	<10,000	**8,810**	<5,000	<5,000	**291,000**	<20,000	**13,800**	
	4/24/1990	--	NA	<10,000	<10,000	<10,000	<10,000	<10,000	NA	<10,000	<10,000	NA	<10,000	**8,170**	<10,000	<10,000	**396,000**	<10,000	**4,040**	
	7/11/1990	--	NA	<2,000	<20,000	<5,000	<5,000	<10,000	NA	<10,000	<10,000	NA	<10,000	**11,600**	<5,000	<5,000	**991,000**	<2,000	<10,000	
	10/18/2000	--	<30	<5	NA	NA	NA	<5	<5	<5	<5	NA	<10	<5	NA	<5	**3,200**	<2	<5	
	Post-Active Remedial System Operation																			
	12/17/2002	--	<15	<1	<15	<3	<3	<2	3 J	<2	<2	<15	<5	<2	<2	<2	**3,200**	<3	<2	
	5/6/2003	--	<12	<1	<6	<2	<2	<2	<2	<2	<2	<6	<4	<1	<2	<2	**3,700**	<2	<2	
	11/24/2003	--	<6	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**3,000**	<1	<0.8	
	8/24/2004	--	<30	<3	<15	<5	<5	<4	<4	<4	<4	<15	<10	<4	<4	<4	**3,400**	<5	<4	
	Post-Injection Monitoring																			
	3/14/2005	--	<6	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**3,400**	<1	<0.8	
	10/28/2005	--	<30	<3	<15	<5	<5	<4	<4	<4	<4	<15	<10	<4	<4	<4	**3,700**	<5	<4	
	11/14/2006	--	<30	<3	<15	<5	<5	<4	<4	<4	<4	<15	<10	<4	<4	<4	**3,400**	<5	<4	
	11/14/2006 (Dup)	--	<30	<3	<15	<5	<5	<4	<4	<4	<4	<15	<10	<4	<4	<4	**3,300**	<5	<4	
	11/17/2008	--	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	1.4		**4,710**	ND	ND	Chloroform 0.49 Tetrachloroethene *1.6*
	10/18/2018	--	<8.7	<0.73	<11	<2.1	<2.0	<2.0	<2.0	<1.7	<0.92	<11	<8.2	<0.76	<1.9	<1.8	**3,600**	<1.0	<1.1	ND

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CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-4	5/25/1989	--	NA	<125	<500	<125	<125	<125	NA	**656**	<125	NA	<125	<125	<125	<125	**9,443**	<125	<125	
	10/24/1989	--	NA	<125	<500	<125	<125	<250	NA	**799**	<250	NA	**1,030**	<125	<125	<125	**9,390**	<500	<250	
	1/10/1990	--	NA	<125	<500	<125	<125	<250	NA	**1,290**	<250	NA	**256**	<125	<125	<125	**12,500**	<500	<250	
	4/24/1990	--	NA	<1,250	<16,250	<1,250	<1,250	<1,250	NA	**2,160**	<1,250	NA	**635**	<1,250	<1,250	<1,250	**12,100**	<1,250	<1,250	
	7/18/1990	--	NA	<400	<4,000	<1,000	<1,000	<2,000	NA	**5,010**	<2,000	NA	<2,000	<1,000	<1,000	<1,000	**40,600**	<400	<2,000	
	10/18/2000	--	14 J	<1	NA	NA	NA	<1	*32*	11	<1	NA	<2	<1	NA	<1	**690**	<2	<1	
	Post-Active Remedial System Operation																			
	12/19/2002	--	<15	<3	<15	<5	<5	<4	**230**	<4	<4	<15	<10	<4	<4	<4	**5,700**	<5	<4	
	5/6/2003	--	<6	<0.5	<3	<1	<1	<0.8	**180**	1 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**4,800**	<1	<0.8	
	11/20/2003	--	<60	<5	<30	<10	<10	<8	**120**	<8	<8	<30	<20	<7	<8	<8	**5,900**	<10	<8	
	8/25/2004	--	<60	<5	<30	<10	<10	<8	**190**	<8	<8	<30	<20	<7	<8	<8	**9,700**	<10	<8	
	Post-Injection Monitoring																			
	3/11/2005	--	<30	<3	<15	<5	<5	<4	*52*	<4	<4	<15	<10	<4	<4	<4	**2,700**	<5	<4	
	3/11/2005 (Dup)	--	<15	<1	<8	<3	<3	<2	<60	<2	<2	<8	<5	<2	<2	<2	**2,600**	<3	<2	
	10/26/2005	--	<12	<1	<6	<2	<2	<2	*28*	<2	<2	<6	<4	<1	<2	<2	**2,100**	<2	<2	
	11/28/2006	--	<12	<1	<6	<2	<2	<2	*16*	<2	<2	<6	<4	<1	<2	<2	**1,900**	<2	<2	
	11/17/2008	--	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND		**814**	ND	ND	ND
	10/18/2018	--	3.1 J1	<0.15	<2.1	<0.41	<0.39	<0.39	1.1	<0.35	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	**79**	<0.20	0.29 J1	Dichlorodifluoromethane 0.82 J1
MW-5	5/24/1989	--	NA	<10,000	<10,000	<10,000	<10,000	<10,000	NA	**43,500**	<10,000	NA	<10,000	<10,000	<10,000	<10,000	**281,000**	<10,000	<10,000	
	10/25/1989	--	NA	<5,000	<20,000	<5,000	<5,000	<10,000	NA	**41,900**	**26,600**	NA	**35,300**	**6,740**	<5,000	<5,000	**230,000**	<20,000	<10,000	
	1/11/1990	--	NA	<5,000	<20,000	<5,000	<5,000	<10,000	NA	**30,600**	<10,000	NA	<10,000	**8,590**	<5,000	<5,000	**166,000**	<20,000	<10/000	
	4/26/1990	--	NA	<10,000	<10,000	<10,000	<10,000	<10,000	NA	**74,000**	<10,000	NA	<10,000	**7,960**	<10,000	<10,000	**234,000**	<10,000	<10,000	
	7/11/1990	--	NA	<2,000	<20,000	<5,000	<5,000	<10,000	NA	**29,100**	<10,000	NA	<10,000	**10,100**	<5,000	<5,000	**744,000**	<2,000	<10,000	
	10/18/2000	--	<1,500	<250	NA	NA	NA	<250	**16,000**	<250	**3,900**	**2,300** J	<500	**17,000**	**2,400**	<250	**370,000**	NA	**16,000**	
	10/18/2018	--	4.8 J1	0.42 J1	<2.1	0.45 J1	<0.39	*1.2*	**890**	12	*330*	<2.2	<1.6	**1,200**	2.5	<0.35	**1,700**	**7.8**	*1,400*	Chlorobenzene 1.3 Isopropylbenzene 6.0 Naphthalene *58* n-Butylbenzene 3.8 N-Propylbenzene 5.5 1,1,2,2-Tetrachloroethane **2.8** Tetrachloroethene *0.87* J1 Tetrahydrofuran *11* 1,2,4-Trimethylbenzene 33 1,3,5-Trimethylbenzene 9.3
MW-6	5/24/1989	--	NA	<50	<200	<50	<50	<50	NA	**164**	*166*	NA	**58.6**	*182*	*57*	<50	**53,910**	<50	*518*	
	10/24/1989	--	NA	<1,000	<4,000	<1,000	<1,000	<2,000	NA	<2,000	<2,000	NA	**9,800**	<1,000	<1,000	<1,000	**115,000**	<4,000	<2,000	
	1/10/1990	--	NA	<5,000	<20,000	<5,000	<5,000	<5,000	NA	<5,000	<10,000	NA	<10,000	<5,000	<5,000	<5,000	**108,000**	<20,000	<10,000	
	4/25/1990	--	NA	<5,000	<65,000	<5,000	<5,000	<5,000	NA	<5,000	<5,000	NA	**2,320**	<5,000	<5,000	<5,000	**102,000**	<5,000	<5,000	
	7/11/1990	--	NA	<2,000	<20,000	<5,000	<5,000	<10,000	NA	<10,000	<10,000	NA	<10,000	<5,000	<5,000	<5,000	**139,000**	<2,000	<10,000	
	10/18/2000	--	<600	<100	NA	NA	NA	<100	**1,700**	<100	<100	NA	<200	<100	NA	<100	**96,000**	NA	<100	Chlorobenzene **140**
	10/18/2018	--	<35	<2.9	<42	<8.2	<7.8	<7.8	**76**	<7.0	*250*	<43	<33	**1,000**	<7.6	<7.0	**8,600**	**11** J1	*1,000*	Chlorobenzene *29* Naphthalene *20* 1,2,4-Trimethylbenzene 15 J1

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-7	5/25/1989	--	NA	<5	<20	<5	<5		NA	<5	<5	NA	<5	<5	<5	<5	**107**	<5	<5	
	10/24/1989	--	NA	<5	<20	<5	<5		NA	13.6	<10	NA	**68.9**	<5	<5	<5	**377**	<20	<10	
	1/9/1990	--	NA	<5	<2	<5	<5		NA	<10	<10	NA	<5	<5	<5	<5	**167**	<20	<10	
	4/24/1990	--	NA	<25	<325	<25	<25		NA	<25	<25	NA	<25	<25	<25	<25	**257**	<25	<25	
	7/11/1990	--	NA	<5	<50	<12.5	<12.5		NA	<25	<25	NA	<25	<12.5	<12.5	<12.5	**225**	<5	<25	
	10/17/2000	--	36	<1	NA	NA	NA		3 J	<1	<1	NA	<2	<1	NA	<	**330**	NA	<1	
	10/18/2018	(1)	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	0.51 J1	<0.35	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	**130**	<0.20	<0.22	Tetrachloroethene *1.1*
MW-8	5/25/1989	--	NA	<250	<1,000	<250	<250	<250	NA	<250	<250	NA	<250	<250	<250	<250	**1,255**	<250	<250	
	10/24/1989	--	NA	<50	<200	<50	<50	<100	NA	<100	<100	NA	**208**	<50	<50	<50	**875**	<20	<100	
	1/9/1990	--	NA	<50	<200	<50	<50	<100	NA	<100	<100	NA	<100	<50	<50	<50	**3,660**	<200	<100	
	4/24/1990	--	NA	<125	<1,625	<125	<125	<125	NA	<125	<125	NA	<125	<125	<125	<125	**2,840**	<125	<125	
	7/8/1990	--	NA	<100	<1,000	<250	<250	<500	NA	<500	<500	NA	<500	<250	<250	<250	**7,360**	<100	<500	
	10/17/2000	--	<15	<3	NA	NA	NA	<3	<3	<3	<3	NA	<5	<3	NA	<3	**3,300**	NA	<3	Tetrachloroethene *3*
	10/17/2000 (Dup)	--	<15	<3	NA	NA	NA	<3	<3	<3	<3	NA	<5	<3	NA	<3	**3,600**	NA	<3	
	10/18/2018	--	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	3.6	<0.35	<0.18	<2.2	<1.6	0.15 J1	<0.38	<0.35	**240**	<0.20	<0.22	Tetrachloroethene *0.56* J1
MW-9	5/25/1989	--	NA	<250	*2,080*	<250	<250	<250	NA	<250	<250	NA	**11,900**	<250	<250	<250	**36,400**	<250	<250	
	10/24/1989	--	NA	<200	<2,000	<500	<500	<1,000	NA	<1,000	<1,000	NA	**5,190**	<500	<500	<500	**6,410**	<2,000	<1,000	
	1/10/1990	--	NA	<200	<2,000	<500	<500	<1,000	NA	<1,000	<1,000	NA	<1,000	<500	<500	<500	**36,200**	<2,000	<1,000	
	4/24/1990	--	NA	<1,250	<16,250	<1,250	<1,250	<1,250	NA	**1,600**	<1,250	NA	**1,830**	<1,250	<1,250	<1,250	**107,000**	<1,250	<1,250	
	7/11/1990	--	NA	<2,000	<20,000	<5,000	<5,000	<10,000	NA	<10,000	<10,000	NA	<10,000	<5,000	<5,000	<5,000	**169,000**	<2,000	<10,000	
	10/16/2000	--	*8,200*	<100	*980*	NA	NA	**250** J	**81,000**	<100	130 J	NA	**1,800**	**880**	NA	<100	**58,000**	**180**	110 J	
	Post-Active Remedial System Operation																			
	12/19/2002	--	1,400	**5** J	<3	13	**88**	**190**	**51,000**	*31*	35	**15,000**	**2,000**	*390*	4 J	**76**	**48,000**	**260**	39	Chloroethane 3 J Carbon disulfide 8 Chloroform *4* J 1,2-Dichloropropane **9** 2-Hexanone 20
	5/8/2003	--	1,500 J	<50	<300	<100	<100	**180** J	**56,000**	<80	<80	**13,000**	**2,500**	*480* J	<80	**110** J	**55,000**	**240** J	<80	
	5/8/2003 (Dup)	--	1,600 J	<50	<300	<100	<100	**100** J	**31,000**	<80	<80	**13,000**	**2,100**	*310* J	<80	**110** J	**23,000**	**130** J	<80	
	11/19/2003	--	*5,300*	<25	<150	<50	**98** J	**170** J	**73,000**	<40	<40	**21,000**	**2,400**	*610*	<50	**170** J	**71,000**	**230** J	<40	
	9/1/2004	--	*1,900* J	<50	<300	<100	**200** J	**270** J	**61,000**	<80	<80	**14,000**	**2,300**	*590*	<80	**130** J	**53,000**	**380** J	<80	
	9/1/2004 (Dup)	--	*2,200*	<50	<300	<100	**190** J	**270** J	**64,000**	<80	<80	**14,000**	**2,400**	*590*	<80	**130** J	**54,000**	**370** J	<80	
	Post-Injection Monitoring																			
	3/18/2005	--	*8,100*	<50	**4,000**	<100	<100	**170** J	**63,000**	<80	84 J	**16,000**	**2,500**	**1,300**	<80	**390** J	**89,000**	**200** J	<80	
	11/3/2005	--	**11,000** J	<500	<3,000	<1,000	<1,000	<800	**31,000**	<800	<800	**16,000**	**7,500**	**3,800** J	<800	**1,600** J	**500,000**	<1,000	<800	
	11/20/2006	--	<1,200	<100	<600	<200	<200	<160	**43,000**	<160	<160	**11,000**	**780** J	*560* J	<160	<160	**150,000**	<200	<160	
	11/25/2008	--	ND	ND	ND	ND	ND	ND	**11,800**	ND	ND	ND	**4,540**	**956**	ND		**161,000**	ND	ND	ND
	10/18/2018	--	<170	<15	<210	<41	<39	<39	**11,000**	**240**	33 J1	<220	<160	90	<38	<35	**100,000**	**150**	48 J1	ND

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Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-10D	7/8/1989	--	NA	<5	<20	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	**29**	<5	<5	
	10/23/1989	--	NA	*0.73*	<2	<0.5	<0.5	<1	NA	<1	<1	NA	<1	0.58	0.74	<0.5	**51**	<2	<1	
	1/10/1990	--	NA	<5	<10	<2.5	<2.5	<5	NA	<5	<5	NA	<5	<2.5	<2.5	<2.5	**74**	<10	<5	
	4/25/1990	--	NA	<5	<65	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	**109**	<5	<5	
	7/18/1990	--	NA	<2	<20	<5	<5	<10	NA	<10	<10	NA	<10	<5	<5	<5	**368**	<2	<10	
	3/24/1993	--	NA	<10.0	NA	NA	NA	<20.0	<25.0	<25.0	<50.0	NA	<125.0	<50.0	<25.0	<25.0	**1,300**	NA	<50.0	
	6/27/1994	--	NA	<1.0	NA	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	**49**	NA	<3.0	
	7/15/1994	--	NA	<1.0	NA	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	**31**	NA	<3.0	
	6/28/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	**7**	NA	<3.0	
	7/30/1996	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	*3*	NA	<0.5	Carbon disulfide 1
	6/18/91997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*1* J,a	<0.75	NA	<0.75	*2*	NA	0.5	
	6/24/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	*0.9*	NA	<0.5	
	6/23/1999	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	*2*	NA	<0.5	
	8/25/1999	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	*1*	NA	<0.5	
	3/29/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	**470**	NA	<0.5	
	10/18/200	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**330**	NA	<1	
	10/26/2001	--	NA	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**970**	NA	<1	
	7/25/2002[8]	--	NA	<0.5	NA	NA	NA	NA	<0.8	<0.8	<0.8	NA	NA	<0.7	NA	NA	*1* J	NA	<0.8	
	Post-Active Remedial System Operation																			
	12/17/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**12**	<1	<0.8	
	5/3/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	11/24/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	8/25/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	Post-Injection Monitoring																			
	3/15/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*3* J	<1	<0.8	
	10/27/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*4*	<1	<0.8	
	11/14/2006	--	16 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*3* J	<1	<0.8	
	11/21/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		**6.8**	ND	ND	ND
	3/2/2009	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		**10.4**	ND	ND	ND
	3/2/2009 (Dup)	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	ND

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(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-11D	7/5/1989	--	NA	<5	<20	<5	<5	<5	NA	<5	<5	NA	**5.1**	14.1	<5	<5	**2,452**	<5	12.1	
	10/24/1989	--	NA	<50	<2	<50	<50	<100	NA	<50	<100	NA	**297**	<50	<50	<50	**1,310**	<200	<100	
	1/10/1990	--	NA	<50	<10	<50	<50	<100	NA	<100	<100	NA	**100**	<50	<50	<50	**827**	<200	<100	
	4/25/1990	--	NA	<50	<65	<50	<50	<50	NA	<50	<50	NA	**77.3**	<50	<50	<50	**5,880**	<50	<50	
	7/18/1990	--	NA	<100	<20	<250	<250	<500	NA	<500	<500	NA	<500	<250	<250	<250	**19,400**	<100	<500	
	3/23/1993	--	NA	<50				<100	<125	<125	<250	NA	<625	<125	<125	<125	**24,600**	NA	<250	
	6/27/1994	--	NA	**15**	NA	NA	NA	<10	*47*	<10	14	NA	<50	48	<10	<10	**850**	NA	47	
	7/15/1994	--	NA	*4.3*	NA	<1	<1	**17**	*51*	<1	3.9	NA	**13**	13	<1	**17**	**460**	NA	12	
	6/28/1995	--	NA	<50	NA	NA	NA	<100	<50	<50	<50	NA	<250	<50	<50	<1.0	**1,900**	NA	<150	
	8/5/1996	--	140 J	<31	NA	NA	NA	<31	<21	<31	<21	NA	**71** J,a	<31	<31	<31	**560**	NA	<21	
	6/18/1997	--	NA	<54	NA	NA	NA	<54	<36	*21* J	<36	NA	**93** J,a	40 J	NA	<54	**1,300**	NA	<36	
	6/24/1998	--	28 J,a	<5	NA	NA	NA	<5	<4	<5	<4	NA	*4* J,a	2 J	<5	<5	**150**	NA	<4	
	6/23/1999	--	200 a	0.3 J	NA	NA	NA	*0.7*	<62	*65*	17	NA	*2*	110	NA	<62	**2,900**	NA	70	
	8/25/1999	--	8.0	<0.5	NA	NA	*0.6*	<0.5	6	*26* J	7	NA	*1* a	36 J	NA	<0.5	**1,000**	NA	39	Carbon disulfide 0.4
	3/30/2000	--	17 J,a	<0.5	NA	NA	NA	<0.5	4 J	10	4 J	NA	*1* J	25	0.6 J	<0.5	**1,200**	NA	15	
	10/18/2000	--	24 J,a	<3	NA	NA	NA	<3	*17*	*67*	11 J	NA	<5	75	NA	<3	**2,400**	NA	46	
	10/26/2001	--	32	<1	<3	2 J	<1	<1	*19*	*69*	8	<3	**5**	65	<1	<1	**2,500**	<1	36	
	Post-Active Remedial System Operation																			
	12/17/2002	--	18 J	*1* J	<6	3 J	<2	<2	*26*	*81*	24	<6	**7** J	140	<2	<2	**3,000**	<2	100	
	5/6/2003	--	<6	<0.5	<3	1 J	<1	<0.8	6	*20*	6	<3	<2	41	<0.8	<0.8	**550**	<1	29	
	5/6/2003 (Dup)	--	<6	<0.5	<3	1 J	<1	<0.8	*7*	*21*	7	<3	<2	42	<0.8	<0.8	**460**	<1	29	
	11/24/2003	--	<6	*0.6* J	<3	1 J	<1	<0.8	*9*	*29*	9	<3	*3* J	57	<0.8	<0.8	**890**	<1	40	
	8/25/2004	--	<6	<0.5	<3	<1	<1	<0.8	1 J	3 J	2 J	<3	<2	10	<0.8	<0.8	**180**	<1	8	
	Post-Injection Monitoring																			
	3/14/2005	--	<6	<0.5	<3	<1	<1	<0.8	6	19	6	<3	<2	34	<0.8	<0.8	**710**	<1	25	
	10/28/2005	--	<30	<3	<15	<5	<5	<4	*13* J	*44*	13 J	<15	<10	77	<4	<4	**2,200**	<5	54	
	10/28/2005 (Dup)	--	<30	<3	<15	<5	<5	<4	*13* J	*43*	12 J	<15	<10	74	<4	<4	**2,200**	<5	50	
	11/14/2006	--	46 J	<3	<15	<5	<5	<4	*15* J	*49*	16 J	<15	<10	91	<4	<4	**2,300**	<5	72	
	11/22/2008	--	ND	ND	ND	ND	ND	ND	*20.6*	*70.6*	23.5	ND	ND	117	ND		**3,080**	ND	79	ND
	3/3/2009	--	ND	ND	ND	ND	ND	ND	*12.7*	*35.9*	ND	ND	**93.6**	44.1	ND		**1,270**	ND	ND	ND

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-12D	7/5/1989	--	NA	<5	<20	<5	<5	<5	NA	6.1	<5	NA	**6.1**	<5	<5	<5	**3,543**	<5	<5	
	10/24/1989	--	NA	<100	<400	<100	<100	<200	NA	<200	<200	NA	**909**	<100	<100	<100	**14,300**	<400	<200	
	1/10/1990	--	NA	<200	<2,000	<500	<500	<1,000	NA	<1,000	<1,000	NA	<1,000	<500	<500	<500	**44,200**	<2,000	<1,000	
	4/24/1990	--	NA	<2,500	<32,500	<2,500	<2,500	<2,500	NA	<2,500	<2,500	NA	**1,090**	<2,500	<2,500	<2,500	**37,700**	<2,500	<2,500	
	7/18/1990	--	NA	<400	<4,000	<1,000	<1,000	<2,000	NA	<2,000	<2,000	NA	<2,000	<1,000	<1,000	<1,000	**48,100**	<400	<2,000	
	3/24/1993	--	NA	<20.0	NA	NA	NA	<40.0	*52.4*	<50.0	<100.0	NA	<250	<50.0	<50.0	<50.0	**2,100**	NA	<100.0	
	6/27/1994	--	NA	<1.0	NA	NA	NA	<2.0	*18*	<1.0	<1.0	NA	<5.0	<1.0	<1.0	*3.8*	**1,100**	NA	<3.0	
	7/15/1994	--		<1.0	NA	1.5	<1.0	*2.2*	*34*	<1.0	<1.0	NA	<5.0	2.6	<1.0	*1.1*	**1,400**	NA	<3.0	
	6/28/1995	--	NA	<1.0	NA	NA	NA	<2.0	*20*	<1.0	<1.0	NA	<5.0	1.4	<1.0	<1.0	**63**	NA	<3.0	
	8/5/1996	--	<220	<33	NA	NA	NA	<33	*33*	<33	<22	NA	**64** J,a	<33	<33	<33	**860**	NA	<22	
	6/19/1997	--	NA	<34	NA	NA	NA	<34	<23	<34	<23	NA	**96** J,a	<34	NA	<34	<34	NA	<23	
	6/24/1998	--	<420	<62	NA	NA	NA	<62	**100**	<62	<42	NA	**44** J,a	<62	<62	<62	**1,600**	NA	<42	
	6/23/1999	--	NA	<12	NA	NA	NA	0.4 J	*23*	0.4 J	<12	NA	0.4 J	0.4 J	NA	<12	**450**	NA	0.2 J	
	8/26/1999	--	57 a	<0.5	NA	NA	NA	<0.5	*11*	1	<0.5	NA	*2* a	<0.5	NA	<0.5	**3,100**	NA	<5.0	
	3/30/2000	--	*3,500* a	<0.5	NA	NA	NA	<0.5	*21*	0.6 #	<0.5	40	<0.5	6	0.7 J	<0.5	**69**	NA	2 J	
	10/26/2001	--	*5,500*	<1.0	<3	<1.0	<1.0	<1.0	*35*	<1.0	<1.0	30	<2.0	1 J	<1.0	<1.0	**41**	<1.0	1 J	
	Post-Active Remedial System Operation																			
	12/20/2002	*Well Inaccessible - No Sample Collected*																		
MW-13C	10/17/2000	--	23	<1.0	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	NA	<2.0	<1.0	NA	<1.0	<1.0	NA	<1.0	
MW-14D	11/21/1989	--	NA	<2.0	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	1/9/1990	--	NA	*0.71*	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	1.21	<0.5	<0.5	<0.5	<2.0	<1.0	
	4/24/1990	--	NA	<5	<65	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	
	7/18/1990	--	NA	*0.60*	3.47	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	0.90	<0.5	<0.5	<0.2	<0.2	<1.0	
	10/17/2000	--	<6	<1	NA	NA	NA	<1.0	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
MW-15	10/17/2000	--	24	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**37**	NA	<1	
	1/5/2001	--	*2,800*	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	*1* J	NA	<1	
MW-16C	11/21/1989	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	1/9/1990	--	NA	<0.5	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	
	4/24/1990	--	NA	<5	<65	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	
	7/18/1990	--	NA	<0.2	2.25	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	*0.64*	<0.2	<1.0	
	10/17/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
MW-17	11/21/1989	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	*0.50*	<0.2	<1.0	
	1/9/1990	--	NA	<0.5	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<2.0	<1.0	
	4/24/1990	--	NA	<5	<65	<5	<5	<5	NA	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	
	7/11/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	10/17/2000	--	6 J,a	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**55**	NA	<1	
	1/15/2001	--	*6,800*	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	*3* J	NA	<1	
MW-18D	10/18/2000	--	69	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-19C	11/21/1989	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	**151**	<0.5	<0.5	<0.5	0.47	<0.2	<1.0	
	1/9/1990	--	NA	<0.5	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	**57.2**	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	
	4/24/1990	--	NA	<5	<65	<5	<5	<5	NA	<5	<5	NA	**137**	<5	<5	<5	<5	<5	<5	
	7/18/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	**67.6**	<0.5	<0.5	<0.5	0.47	<0.2	<1.0	
	10/19/2000	--	*3,600*	<10	NA	NA	NA	<10	**180**	<10	*150*	34 J	<20	*480*	25 J	<10	**6,800**	NA	*630*	
	10/19/2000 (Dup)	--	*3,700*	<5	NA	NA	NA	<5	**140**	<5	*140*	NA	<10	*400*	NA	<5	**4,800**	NA	*580*	
	5/1/2002[8]	--	NA	<0.5	NA	NA	NA	NA	**460**	5	<0.8	NA	NA	<0.7	NA	NA	**140**	NA	<0.8	
	Post-Active Remedial System Operation																			
	12/20/2002	--	<6	<0.5	<3	<1	<1	*1* J	**2,000**	*24*	<0.8	10 J	<2	<0.7	<.8	<0.8	*3* J	**3** J	<0.8	
	5/6/2003	--	<6	<0.5	<3	<1	<1	*1* J	**1,400**	19	<0.8	3 J	<2	<0.7	<0.8	<0.8	*3* J	**3** J	<0.8	
	11/20/2003	--	<6	<0.5	<3	<1	<1	*1* J	**1,300**	17	<0.8	<3	<2	<0.7	<0.8	<0.8	*4* J	**3** J	<0.8	
	8/25/2004	--	<12	<1	<6	<2	<2	<2	**1,400**	17	<2	<6	<4	<1	<2	<2	<2	**3** J	<2	
	Post-Injection Monitoring																			
	1/12/2005	--	<6	<0.5	<3	<1	<1	*2* J	**1,700**	*24*	<0.8	<3	<2	<0.7	<0.8	<0.8	*1* J	**4** J	<0.8	
	3/10/2005	--	<40	<10	<20	<10	<10	<10	**1,600**	*20*	<10	<20	<10	<10	<10	<10	<10	**3** J	<10	
	3/10/2005 (Dup)	--	<40	<10	<20	<10	<10	<10	**1,700**	19	<10	<20	<10	<10	<10	<10	<10	**3** J	<10	
	7/11/2005	--	<6	<0.5	<3	<1	<1	*2* J	**1,600**	*23*	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	**3** J	<0.8	
	10/24/2005	--	<12	<1	<6	<2	<2	<2	**1,800**	18	<2	<6	<4	<1	<2	<2	<2	**2** J	<2	
	2/8/2006	--	86	<1	<8	<3	<3	<2	**1,700**	*21*	<2	<8	<5	<2	<2	<2	<3	**3** J	<2	
	8/1/2006	--	11 J	<0.5	<3	<1	<1	*2* J	**1,300**	*22*	<0.8	<3	<2	<0.7	<0.8	<0.8	*3* J	**4** J	<0.8	
	11/18/2006	--	7 J	<0.5	<3	<1	<1	*1* J	**1,400**	*22*	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	**3** J	<0.8	
	11/18/2006 (Dup)	--	8 J	<0.5	<3	<2	<1	*2* J	**1,500**	*22*	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	**3** J	<0.8	
	2/28/2007	--	<12	<1	<6	<2	<2	*2* J	**1,600**	*22*	<2	<6	<4	<1	<2	<2	<2	**3** J	<2	
	11/22/2008	--	ND	ND	ND	ND	ND	ND	**2,920**	*42.3*	ND	ND	ND	ND	ND		**31.4**	ND	ND	ND
	2/23/2009	--	ND	*0.66*	ND	0.82	*1.0*	*4.0*	**3,000**	*37.5*	ND	2.6	ND	ND	ND		**40.3**	**13.3**	ND	ND
	10/18/2018	--	<87	<7.3	<110	<21	<20	**120**	**82,000**	**240**	<9.2	<110	<82	<7.6	<19	<18	**4,700**	**87**	<11	Dichlorodifluoromethane 35 J1

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-20C	12/1/1989	--	NA	*3.37*	<2.0	<0.5	<0.5	<1.0	NA	2.66	5.9	NA	<1.0	15.1	<0.5	<0.61	**428**	<0.2	59.8	
	1/10/1990	--	NA	<0.5	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	2.54	<0.5	<0.5	**133**	<2.0	27.5	
	4/24/1990	--	NA	<5	<65	<5	<5	*1.7*	NA	<5	<5	NA	**137**	<5	<5	<5	**126**	<5	<5	
	7/18/1990	--	NA	<2.0	<20	<5	<5	<10	NA	<10	<10	NA	<10	<5	<5	<5	**48.6**	<2.0	<10	
	10/18/2000	--	**42,000**	<10	NA	NA	NA	<10	<10	<10	<10	NA	<20	24 J	NA	<10	**530**	NA	16 J	
	10/18/2018	--	5.7	<0.15	<2.1	<0.41	<0.39	<0.39	3.7	0.70 J1	1.8	<2.2	<1.6	6.1	<0.38	<0.35	**200** F1	<0.20	8.0	ND
MW-21D	7/10/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	3/25/1993	--	NA	<0.2	NA	NA	NA	<0.4	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	6/27/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/29/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	7/30/1996	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/19/1997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*1* J,a	<0.75	NA	<0.75	<0.75	NA	<0.5	
	6/25/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.7* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/23/1999	--	8 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	0.4 J,a	<0.5	NA	<0.5	<0.5	NA	<0.5	
	8/26/1999	--	6 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*1* b	0.3 J	NA	<0.5	*0.6*	NA	<0.5	
	3/29/2000	--	8 J,a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	
	10/16/2000	--	6 J,a	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**13**	NA	<1	
	12/13/2000	--	9 J	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/22/2001	--	**12,000**	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	Post-Active Remedial System Operation																			
	5/7/2003	--	30	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2003	--	56	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/31/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/18/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/1/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/16/2006	--	72	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2008	--	16.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-22C	7/17/1990	--	60	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	

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Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-23D	7/10/1990	--	NA	*3.60*	<2.0	<0.5	<0.5	<1.0	NA	<1.0	4.8	NA	<1.0	17.4	<0.5	<0.5	<0.2	<0.2	40.4	
	3/24/1993	--	NA	<0.2	NA	NA	NA	<0.4	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	6/27/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/29/1995	--	NA	<5.0	NA	NA	NA	<10	<5.0	<5.0	<5.0	NA	<25	<5.0	<5.0	<1.0	<5.0	NA	<15	Naphthalene 5.8
	7/30/1996	--	7 a	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/19/1997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*2* J,a	<0.75	NA	<0.75	<0.75	NA	<0.5	
	6/24/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.8* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/23/1999	--	7 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	0.3 J,a	<0.5	NA	<0.5	<0.5	NA	<0.5	
	8/25/1999	--	4 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*0.9* a	0.3 J	NA	<0.5	*2*	NA	<0.5	
	3/29/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.4	<0.5	<0.5	NA	*0.9* a	0.3 J	NA	<0.5	<0.5	NA	<0.5	Chlorobenzene 0.7 a 1,4-Dichlorobenzene 0.7 a
	10/18/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/18/2000 (Dup)	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/22/201	--	18	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	Post-Active Remedial System Operation																			
	12/20/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/8/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/8/2003 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/24/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/30/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<	<0.8	
	Post-Injection Monitoring																			
	11/2/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
MW-24	7/10/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	10/18/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	

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Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-25C	7/19/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	**39.1**	<0.2	<1.0	
	3/25/1993	--	NA	0.3	NA	NA	NA	<0.4	0.7	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	**44.2**	NA	<1.0	
	6/28/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	**28**	<1.0	<1.0	<1.0	**31**	NA	<3.0	
	6/29/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	**22**	NA	<3.0	
	8/5/1996	--	4 J	<0.8	NA	NA	NA	<0.8	0.4 J	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	**13**	NA	0.3 J	
	6/19/1997	--	NA	<5	NA	NA	NA	<5	<3	<5	<3	NA	**15** J,a	<5	NA	<5	**17**	NA	<3	
	6/26/1998	--	19 a	<0.8	NA	NA	NA	<0.8	0.6	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	**9**	NA	<0.5	
	6/23/1999	--	13 a	<0.5	NA	NA	NA	<0.5	0.4 J	<0.5	<0.5	NA	*0.6* a	<0.5	NA	*0.9*	**10**	NA	0.4 J	
	8/26/1999	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*0.7*	0.3 J	NA	<0.5	*3*	NA	<0.5	
	3/28/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	**5** J	NA	<0.5	
	10/16/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	*4* J	NA	<1	
	10/26/2001	--	140	<1	<2	<1	<1	<1	<1	<1	<1	<3	<2	<1	<1	<1	**5** J	<1	<1	
	Post-Active Remedial System Operation																			
	12/20/2002	--	1,500	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**11**	<1	<0.8	
	5/8/2003	--	10 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	11/24/2003	--	14 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**7**	<1	<0.8	
	9/1/2004	--	11 J	<0.5	<3	<1	<1	<0.8	<.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	Post-Injection Monitoring																			
	3/9/2005	--	81	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	*2* J	<5	<5	
	11/2/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/2/2005 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/17/2006	--	7 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2008	--	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49	ND	ND	ND

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CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-26C	7/10/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	3/25/1993	--	NA	<0.2	NA	NA	NA	<0.4	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	6/28/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	**8.7**	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/30/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	7/30/1996	--	2 J,a	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*1* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/20/1997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*1* J,a	<0.75	NA	<0.75	<0.75	NA	<0.5	
	7/29/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.9* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/23/1999	--	15 a	<0.5	NA	NA	NA	<0.5	0.3 J	<0.5	<0.5	NA	*0.6* a	<0.5	NA	*0.5*	*2*	NA	<0.5	
	8/26/1999	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*0.6* a	0.3	NA	<0.5	<0.5	NA	<0.5	
	3/28/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	
	10/16/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**6**	NA	<1	
	12/13/2000	--	*6,700*	<1	NA	NA	NA	<1	1 J	<1	<1	NA	<2	<1	NA	<1	**8**	NA	<1	
	10/22/2001	--	*3,200*	<1	NA	NA	NA	<1	1 J	<1	<1	NA	<2	<1	NA	<1	**14**	NA	<1	
	Post-Active Remedial System Operation																			
	12/20/2002	--	440	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*4*	<1	<0.8	
	5/8/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2003	--	21	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	9/1/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/17/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/17/2005 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/3/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/17/2006	--	<6	<0.5	<3	<1	<	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/18/2018	--	5.8	<0.15	<2.1	<0.41	<0.39	<0.39	<0.41	<0.35	<0.18	<2.2	<1.6	0.25 J1	<0.38	<0.35	*0.84*	<0.20	<0.22	Methyl tert-butyl ether 1.0 Naphthalene 0.42 J1
MW-27	7/18/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<.5	<0.5	<0.5	**45.7**	<0.5	<1.0	
	10/19/2000	--	19 J,a	<3	NA	NA	NA	<3	*13*	<3	<3	NA	<5	<3	4 J	<3	**3,300**	NA	<3	

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CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-28D	7/19/1990	--	NA	*2.88*	<2.0	<0.5	<0.5	<1.0	NA	<1.0	3.46	NA	<1.0	12.0	<0.5	<0.5	**57.3**	<0.2	26.3	
	10/18/2000	--	130	<1	NA	NA	NA	*1* J	*27*	2 J	12	NA	<2	17	NA	<1	**780**	NA	42	
	7/25/2002[8]	--	NA	<0.5	NA	NA	NA	NA	1 J	<0.8	<0.8	NA	NA	<0.7	NA	NA	**370**	NA	<0.8	
	Post-Active Remedial System Operation																			
	12/17/2002	--	<6	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**430**	<1	<0.8	
	5/5/2003	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**430**	<1	<0.8	
	11/24/2003	--	8 J	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**440**	<1	<0.8	
	11/24/2003 (Dup)	--	10 J	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**430**	<1	<0.8	
	8/25/2004	--	<6	<0.5	<3	<	<1	<0.8	2 J	<0.8	<.8	<3	<2	<0.7	<0.8	<0.8	**440**	<1	<0.8	
	Post-Injection Monitoring																			
	3/14/2005	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**380**	<1	<0.8	
	10/28/2005	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**400**	<1	<0.8	
	11/14/2006	--	13 J	<0.5	<3	<1	<1	<0.8	2 J	0.9 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**310**	<1	<0.8	
	11/22/2008	--	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND		**290**	ND	ND	ND
	3/3/2009	--	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	**11.8**	ND	ND		**284**	ND	ND	ND
	10/18/2018	--	4.6 J1	<0.15	<2.1	<0.41	<0.39	*0.77* J1	*15*	4.3	<0.18	<2.2	<1.6	0.28 J1	<0.38	<0.35	**190**	<0.20	0.93 J1	ND
	10/18/2018 (Dup)	--	<1.7	<0.15	<2.1	<0.41	<0.39	*1.1*	*15*	5.2	<0.18	<2.2	<1.6	0.18 J1	<0.38	<0.35	**150**	<0.20	<0.22	ND
MW-29	7/19/1990	--	NA	0.30	<2.0	<0.5	<0.5	<1.0	NA	*47.8*	1.80	NA	*3.54*	2.60	<0.5	*0.83*	**735**	<0.2	12.05	
	10/18/2000	--	NA	<1	NA	NA	NA	<1	*19*	<1	5	NA	**6**	16	NA	<1	**480**	NA	24	

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-30D	7/17/1990	--	NA	**14.4**	<2.0	<0.5	<0.5	<1.0	NA	<1.0	11.9	NA	<1.0	62.0	<0.5	<0.5	**12.5**	<0.2	102.9	
	10/18/2000	--	92	<1	NA	NA	NA	<1	1 J	<1	<1	NA	<2	2 J	NA	<1	**24**	NA	1 J	
	10/18/2000 (Dup)	--	85	<1	NA	NA	NA	<1	1 J	<1	<1	NA	<2	2 J	NA	<1	**25**	NA	1 J	
	Post-Active Remedial System Operation																			
	12/20/2002	--	35	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/6/2003	--	20	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2003	--	150	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/24/2004	--	6 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/24/2004 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	1/13/2005	--	<6	<0.5	21	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/10/2005	--	<20	<5	19	<5	<5	<5	2 J	<5	<5	<10	<5	<5	<5	<5	<5	<5	<0.8	
	7/11/2005	--	8 J	<0.5	11	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	10/24/2005	--	19 J	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	2/7/2006	--	32	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/1/2006	--	60	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2006	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	2/28/2007	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/22/2008	--	10.4	ND	67.9	ND	ND	ND	*57.2*	ND	ND	ND	ND	ND	ND	NA	ND	**20.4**	ND	ND
	3/2/2009	--	11.2	ND	18.5	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	NA	*0.96*	ND	ND	ND
	3/2/2009 (Dup)	--	ND	ND	16.2	ND	ND	ND	5.4	ND	ND	ND	ND	ND	ND	NA	*0.81*	ND	ND	ND
MW-31D	7/19/1990	--	NA	**16.2**	7.4	<0.5	<0.5	<1.0	NA	<1.0	10.5	NA	<1.0	68.1	<0.5	<0.5	**25.6**	<0.2	120.1	
	3/25/1993	--	NA	<0.2	NA	NA	NA	<0.4	<0.5	0.6	1.3	NA	<2.5	1.8	<0.5	<0.5	**103**	NA	1.7	
	6/28/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	1.2	NA	**11**	1.9	<1.0	<1.0	**58**	NA	<3.0	
	6/29/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	4.1	6.9	NA	<5.0	11	<1.0	<10.	**56**	NA	8.1	
	8/2/1996	--	24	<2	NA	NA	NA	<2	<2	<2	<2	NA	*3* J,a	<2	<2	<2	**39**	NA	<2	
	6/20/1997	--	NA	<54	NA	NA	NA	<54	<36	<54	<36	NA	**150** J,a	20 J	NA	<54	**1,600**	NA	21 J	
	7/29/1997	--	NA	<8	NA	NA	NA	<8	<5	<8	<5	NA	**6** J,a	3 J	NA	<8	**190**	NA	3 J	
	7/29/1998	--	<160	<2	NA	NA	NA	<2	<1	<2	<1	NA	*1* J,a	<2	<23	<2	**30**	NA	<1	
	6/22/1999	--	NA	<18	NA	NA	NA	0.4 J	3	6	8	NA	0.4 J	5	NA	<18	**360**	NA	13	
	8/26/1999	--	48 a	<0.5	NA	NA	NA	<0.5	<0.5	0.7	2	NA	*0.5*	0.9	NA	<0.5	**240**	NA	4	
	3/29/2000	--	6 J,a	<0.5	NA	NA	NA	*4* J	*25*	*67*	66	8 J	*0.71*	40	NA	<0.5	**7,800**	NA	140	
	10/16/2000	--	<60	<10	NA	NA	NA	<10	*16* J	*51*	13 J	NA	<20	12 J	NA	<10	**5,700**	NA	27 J	
	10/26/2001	--	1,200	<3	<8	<3	<3	<3	*33*	*63*	50	<8	<5	31	<3	<3	**6,800**	<3	120	
	10/26/2001 (Dup)	--	1,000	<3	<8	<3	<3	*4* J	*39*	*75*	45	6 J	<5	33	NA	<3	**7,500**	<3	100	
	5/14/2002[8]	--	NA	<0.5	NA	NA	NA	NA	<0.8	<0.8	<0.8	NA	NA	<0.7	NA	NA	**35**	NA	<0.8	
	Abandoned December 2002																			

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Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-32D	7/10/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	10/16/2000	--	66	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	**6**	NA	<1	
	Post-Active Remedial System Operation																			
	12/19/2002	--	9 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/3/2003	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*4* J	<1	<0.8	
	11/18/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2003 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/31/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/17/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/3/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/16/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
MW-33D	7/10/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0	
	3/25/1993	--	NA	<0.2	NA	NA	NA	<0.4	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	6/28/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	**24**	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/29/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	8/2/1996	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	0.4 J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	Carbon disulfide 3 a
	6/19/1997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*1* J,a	<0.75	NA	<0.75	<0.75	NA	<0.5	
	6/25/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.7* J,a	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/22/1999	--	0.9 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*0.6* a	<0.5	NA	<0.5	*2*	NA	<0.5	
	8/26/1999	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*0.6* a	<0.5	NA	<0.5	<0.5	NA	<0.5	
	3/28/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	
	10/16/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/22/2001	--	78	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/22/2001 (Dup)	--	68	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	Post-Active Remedial System Operation																			
	12/19/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/8/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2003	--	15 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/31/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/17/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/3/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/16/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND

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CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)		
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000		
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400		
MW-34D	7/10/1990	--	NA	<0.2	<2.0	<0.5	<0.5	<1.0	NA	<1.0	<1.0	NA	<1.0	<0.5	<0.5	<0.5	<0.2	<0.2	<1.0		
	3/25/1993	--	NA	<0.2	NA	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0		
	6/28/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	**9.9**	<1.0	<1.0	<1.0	<1.0	NA	<3.0		
	6/29/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.5	<1.0	<1.0	<1.0	<1.0	NA	<3.0		
	8/2/1996	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	0.4 J	NA	*0.6* J,a	<0.8	<0.8	<0.8	<0.8	NA	3		
	6/20/1997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*1* J,a	<0.75	NA	<0.75	<0.75	NA	<0.5		
	6/25/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*1* J,a	0.3 J	<0.8	<0.8	<0.8	NA	<0.5		
	6/22/1999	--	1 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	0.4 J,a	<0.5	NA	<0.5	*0.5*	NA	<0.5		
	8/26/1999	--	3 a	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*0.6*	<0.5	NA	<0.5	<0.5	NA	<0.5	Carbon disulfide	0.9
	3/28/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5		
	10/16/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1		
	10/22/2001	--	NA	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1		
	Post-Active Remedial System Operation																				
	12/20/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8		
	5/8/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8		
	11/18/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8		
	8/31/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8		
	Post-Injection Monitoring																				
	3/9/2005	--	<20	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5		
	11/2/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8		
	11/16/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8		
	11/20/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	
MW-35D	*Post-Active Remedial System Operation*																				
	12/17/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*3* J	<1	<0.8		
	5/7/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8		
	11/20/2003	--	<0.8	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*3* J	<1	<0.8		
	8/26/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*3* J	<1	<0.8		
	Post-Injection Monitoring																				
	3/8/2005	--	<6	<0.5	<3	<1	<1	<0.8	0.9 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**6**	<1	<0.8		
	10/31/2005	--	<6	<0.5	<3	<1	<1	<0.8	*14*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**61**	<1	<0.8		
	8/3/2006	--	<6	<0.5	<3	<1	<1	<0.8	**90**	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**150**	<1	<0.8		
	11/20/2006	--	<6	<0.5	<3	<1	<1	<0.8	**210**	0.9 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**230**	<1	<0.8		
	3/6/2007	--	<6	<0.5	<3	<1	<1	*1* J	**430**	2 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**250**	<1	<0.8		
	11/24/2008	--	28.3	ND	185	ND	ND	ND	**142**	1.0	ND	ND	**8.3**	ND	ND		*2.8*	**11.2**	ND	ND	
	2/20/2009	--	383	ND	612	ND	ND	ND	**313**	ND	ND	ND	**6.7**	ND	ND		*2.7*	**12.6**	ND	Methyl Chloride	2.0
	7/25/2017	--	8.0	0.24	ND	0.35	0.39	ND	0.41	**230**	ND	ND	ND	0.21	ND		ND	**0.63**	ND	Chloroethane	5.0
	7/25/2017 (Dup)	--	ND	0.35	ND	ND	ND	ND	ND	**230**	ND	ND	ND	ND	ND		ND	**0.68**	ND	Chloroethane	6.3
	10/29/2018	--	15	0.29 J1	<2.1	<0.41	<0.39	<0.39	2.0	**160**	<0.18	<2.2	<1.6	0.53	<0.38	<0.35	*0.92*	**1.3**	0.89 J1	Chloroethane Tetrahydrofuran	6.9 *26*

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-36	*Post-Active Remedial System Operation*																			
	12/18/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	12/18/2002 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/7/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/8/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	10/26/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND
MW-36D	*Post-Active Remedial System Operation*																			
	12/18/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/7/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2003	--	<6	<0.5	<3	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	3 J	<1	<0.8	
	8/26/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/8/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	10/31/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	1 J	<1	<0.8	
	11/20/2006	--	<6	<0.5	<3	<1	2 J	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**29**	<1	<0.8	
	11/19/2008	--	ND	ND	ND	ND	ND	ND	19.6	ND	ND	ND	ND	ND	ND	ND	**16.9**	ND	ND	ND
	2/19/2009	--	ND	ND	ND	ND	ND	ND	7.6	ND	ND	ND	ND	ND	ND	ND	**12.8**	ND	ND	ND
	10/29/2018	--	3.1 J1	<0.15	<2.1	<0.41	<0.39	<0.39	**81**	24	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	**32**	**17**	<0.22	Chloroethane 0.51 J1
MW-37D	*Post-Active Remedial System Operation*																			
	12/20/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**7**	<1	<0.8	
	5/7/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**9**	<1	<0.8	
	11/19/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**7**	<1	<0.8	
	8/30/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**5** J	<1	<0.8	
	Post-Injection Monitoring																			
	3/10/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/1/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	Methyl chloride 0.64

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-38D	*Post-Active Remedial System Operation*																			
	12/20/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	12/20/2002 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/7/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2003	--	<6	<0.5	<3	<1	<1	<0.8	3 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**7**	<1	<0.8	
	8/30/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/30/2004 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/10/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/1/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
MW-39D	*Post-Active Remedial System Operation*																			
	12/19/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**13**	<1	<0.8	
	5/3/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/31/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	8/31/2004 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/17/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/3/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/17/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/20/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
	7/25/2017	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	Chloromethane 0.47

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected	
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)		
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000		
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400		
MW-40D	8/25/2004	--	<30	<3	<15	<5	<5	<4	**1,300**	5 J	<4	<15	<10	<4	<4	<4	**5,500**	<5	<4		
	Post-Injection Monitoring																				
	1/12/2005	--	<15	<1	<8	<3	<3	**8** J	**3,300**	7 J	<2	<8	<5	<2	<2	<2	**2,200**	<3	<2		
	3/8/2005	--	<30	<3	<15	<5	<5	**7** J	**4,200**	10 J	<4	<15	<10	<4	<4	<4	**2,700**	<5	<4		
	7/14/2005	--	<12	<1	<6	<2	<2	**9** J	**5,700**	12	<8	<6	<4	<1	<2	<2	**3,500**	**3** J	<2		
	10/31/2005	--	<60	<5	<30	<10	<10	**11** J	**6,900**	*23* J	<8	<30	<20	<7	<8	<8	**3,900**	<10	<8		
	2/9/2006	--	<60	<5	440	<10	<10	**13** J	**8,400**	*20* J	<8	<30	<20	<7	<8	<8	**3,800**	<10	<8		
	2/9/2006 (Dup)	--	<60	<5	440	<10	<10	**13** J	**8,800**	19 J	<4	<30	<20	<7	<8	<8	**3,900**	<10	<8		
	8/3/2006	--	<30	<3	<15	<5	<5	**10** J	**6,200**	19 J	<4	<15	<10	<4	<4	<4	**4,700**	**6** J	<4		
	8/3/2006 (Dup)	--	<30	<3	<15	<5	<5	**10** J	**6,100**	18 J	<4	<15	<10	<4	<4	<4	**4,500**	**6** J	<4		
	11/21/2006	--	<30	<3	<15	<5	<5	**10** J	**5,900**	*23* J	<4	<15	<10	<4	<4	<4	**4,900**	**26**	<4		
	11/21/2006 (Dup)	--	<30	<3	<15	<5	<5	**10** J	**5,700**	*23* J	<4	<15	<10	<4	<4	<4	**4,700**	**27**	<4		
	3/6/2007	--	<30	<3	<15	<5	<5	**9** J	**4,700**	17 J	<4	<15	<10	<4	<4	<4	**3,500**	**90**	<4		
	3/6/2007 (Dup)	--	<30	<3	<15	<5	<5	**8** J	**4,700**	17 J	<4	<15	<10	<4	<4	<4	**3,500**	**92**	<4		
	11/24/2008	--	ND	ND	ND	ND	ND	ND	*63.9*	0.56	ND	ND	ND	ND	ND	ND	**79.7**	**6.3**	ND	Methyl chloride	0.83
	2/20/2009	--	ND	ND	ND	ND	ND	ND	**73.9**	1.6	ND	ND	ND	ND	ND	ND	**76.5**	**14.2**	ND	ND	
	7/25/2017	--	13	0.36	ND	0.76	ND	*4.3*	**4,100**	**320**	ND	ND	ND	ND	ND	ND	**980**	**780**	ND	Chloroethane	76
	7/25/2017 (Dup)	--	ND	ND	ND	ND	ND	ND	**3,900**	**270**	ND	ND	ND	ND	ND	ND	**910**	**750**	ND	Chloroethane	62
	10/29/2018	--	<8.7	<0.73	<11	<2.1	<2.0	<2.0	**2,400**	*70*	<0.92	<11	<8.2	0.87 J1	<1.9	<1.8	**1,500**	**210**	1.1 J1	Chloroethane Tetrahydrofuran	4.5 J1 *13* J1
MW-41D	8/30/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**26**	<1	<0.8		
	Post-Injection Monitoring																				
	1/12/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**61**	<1	<0.8		
	3/9/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**85**	<1	<0.8		
	7/13/2005	--	<6	<0.5	10	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**130**	<1	<0.8		
	11/1/2005	--	<6	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**160**	<1	<0.8		
	11/1/2005 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**160**	<1	<0.8		
	2/9/2006	--	6 J	<0.5	14	<1	<1	<0.8	*29*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**84**	<1	<0.8		
	8/3/2006	--	17 J	<0.5	51	<1	<1	<0.8	*12*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**5**	<1	<0.8		
	11/21/2006	--	41	<0.5	<3	<1	<1	<0.8	*11*	<0.8	<0.8	<3	<2	7	<0.8	<0.8	**5**	<1	<0.8		
	3/6/2007	--	52	<0.5	170	<1	<1	<0.8	*8*	<0.8	<0.8	<3	<2	49	<0.8	<0.8	*2*	<1	<0.8		
	11/19/2008	--	ND	ND	ND	ND	ND	ND	*60.1*	3.4	ND	ND	ND	ND	ND	ND	*4.7*	ND	ND	ND	
	2/19/2009	--	ND	ND	ND	ND	ND	ND	**99.5**	4.6	ND	ND	ND	ND	ND	ND	**7.1**	ND	ND	ND	
	2/19/2009 (Dup)	--	ND	ND	ND	ND	ND	ND	**95.7**	4.5	ND	ND	ND	ND	ND	ND	**6.9**	ND	ND	ND	

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
MW-42D	8/30/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**43**	<1	<0.8	
	Post-Injection Monitoring																			
	1/12/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**39**	<1	<0.8	
	3/9/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**35**	<1	<0.8	
	7/13/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**17**	<1	<0.8	
	7/13/2005 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**17**	<1	<0.8	
	11/1/2005	--	<6	<0.5	4 J	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**13**	<1	<0.8	
	2/8/2006	--	<6	<0.5	11	<1	<1	<0.8	5	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**6**	<1	<0.8	
	8/3/2006	--	<6	<0.5	21	<1	<1	<0.8	*7*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	11/21/2006	--	<6	<0.5	<3	<1	<1	<0.8	*9*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**11**	<1	<0.8	
	3/2/2007	--	<6	<0.5	<3	<1	<1	<0.8	4 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*4*	<1	<0.8	
	11/19/2008	--	ND	ND	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	*0.73*	ND	ND	ND
MW-43D	8/23/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**13**	<1	<0.8	
	Post-Injection Monitoring																			
	3/14/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/14/2005 (Dup)	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	10/28/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/14/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/18/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**16.4**	ND	ND	ND	*0.74*	ND	ND	ND
	10/29/2018	(2)	<3.5	<0.29	<4.2	<0.82	<0.78	<0.78	<0.82	<0.70	<0.37	<4.3	<3.3	<0.30	<0.76	<0.70	**880**	<0.41	<0.44	ND
MW-44D	11/24/2008	--	110	ND	250	ND	ND	ND	*23.8*	ND	ND	ND	ND	ND	ND	ND	**11.0**	ND	ND	Carbon disulfide 0.52 Methyl Chloride 2.5
	2/20/2009	--	136	ND	498	ND	ND	ND	**83.5**	ND	ND	ND	*2.7*	ND	ND	ND	**15.1**	ND	ND	Methyl Chloride 2.2
	10/29/2018	--	4.3 J1	0.32 J1	<4.2	<0.82	<0.78	*2.3*	**1,100**	*94*	<0.37	<4.3	*4.2* J1	<0.30	<0.76	<0.70	**16**	**450**	<0.44	Chloroethane 1.6 J1
	10/29/2018 (Dup)	--	<3.5	<0.29	<4.2	<0.82	<0.78	*1.9* J1	**1,000**	*91*	<0.37	<4.3	<3.3	<0.30	<0.76	<0.70	**17**	**480**	<0.44	ND
MW-45D	11/18/2008	--	ND	ND	ND	ND	ND	ND	*18.6*	ND	ND	ND	ND	ND	ND	ND	**66.9**	ND	ND	ND
	2/19/2009	--	ND	ND	ND	ND	ND	ND	*54.4*	ND	ND	ND	ND	ND	ND	ND	**59.1**	ND	ND	ND
	10/29/2018	--	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	*38*	1.5	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	**36**	**1.4**	<0.22	ND
MW-46D	11/18/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/29/2018	--	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	<0.41	<0.35	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	0.30 J1	**0.30** J1	<0.22	ND

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
Inj-1	8/23/2004	--	<60	<5	<30	<10	<10	<8	**510**	<8	<8	<30	<20	<7	<8	<8	**3,100**	<10	<8	
	Post-Injection Monitoring																			
	1/11/2005	--	110	<3	490	<5	<5	<4	**490**	<4	<4	<15	<10	<4	<4	<4	**110**	<5	<4	
	1/11/2005 (Dup)	--	110 J	<5	530	<10	<10	<8	**470**	<8	<8	<30	<20	<7	<8	<8	**110**	<10	<8	
	3/11/2005	--	<120	<10	*830*	<20	<20	<16	**410**	<16	<16	<60	<40	<14	<16	<16	**39** J	<20	<16	
	7/12/2005	--	44	<0.5	790	<1	<1	*3* J	**1,100**	1 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**53**	**3** J	<0.8	
	7/12/2005 (Dup)	--	49	<0.5	*800*	<1	<1	*3* J	**1,100**	1 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**53**	**3** J	<0.8	
	10/26/2005	--	67	<1	*810*	<2	<2	*6* J	**2,600**	2 J	<2	<6	<4	<1	<2	<2	**18**	**8** J	<2	
	2/7/2006	--	180	<3	*1,100*	<5	<5	*5* J	**3,000**	<4	<4	<15	<10	<4	<4	<4	**10** J	**14** J	<4	
	8/4/2006	--	260	<1	<8	<3	<3	*6* J	**3,600**	14	<2	<8	<5	<2	<2	<2	**10** J	**97**	<2	
	11/28/2006	--	56 J	*4* J	77	<5	<5	<4	**1,200**	18 J	4 J	<15	<10	<4	<4	<4	<5	**65**	<4	
	2/28/2007	--	63	<0.5	60	<1	<1	*1* J	**490**	*90*	<0.8	4 J	<2	1 J	<0.8	<0.8	<1	**55**	<0.8	
	2/23/2009	--	ND	ND	ND	ND	ND	ND	0.86	0.50	ND	ND	ND	ND	ND	ND	0.41	ND	ND	ND
	3/2/2009	--	199	ND	351	ND	ND	ND	**1,150**	2.4	ND	ND	**10.3**	1.2	ND	ND	*1.0*	**16.4**	ND	ND
Inj-2	8/24/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**11**	<1	<0.8	
	Post-Injection Monitoring																			
	1/12/2005	--	<15	<1	<8	<3	<3	<2	<2	<2	<2	<8	<5	<2	<2	<2	<3	<3	<2	
	3/15/2005	--	19 J	<0.5	8 J	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	7/14/2005	--	<60	<5	270	<10	<10	<8	<8	<8	<8	<30	<20	**6,400**	<8	<8	**12** J	<10	<8	
	10/27/2005	--	<60	<5	160	<10	<10	<8	<8	<8	<8	<30	<20	**4,600**	<8	<8	<10	<10	<8	
	2/9/2006	--	45 J	<3	140	<5	<5	<4	<4	<4	<4	<15	<10	**2,700**	<4	<4	<5	<5	<4	
	11/29/2006	--	<6	<0.5	<3	<1	<1	<0.8	5	<0.8	<0.8	<3	<2	2 J	<0.8	<0.8	<1	<1	<0.8	
	11/24/2008	--	ND	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inj-3	8/24/2004	--	<6	<0.5	<3	<1	<1	<0.8	*11*	0.9 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**26**	<1	<0.8	
	Post-Injection Monitoring																			
	1/12/2005	--	<60	<5	*1,700*	<10	<10	<8	<8	<8	<8	<30	<20	<7	<8	<8	<10	<10	<8	
	3/11/2005	--	<120	<10	*1,400*	<20	<20	<16	<16	<16	<16	<60	<40	<14	<16	<16	<20	<20	<16	
	7/13/2005	--	43	<0.5	610	<1	<1	<0.8	2 J	<0.8	<0.8	<3	<2	1 J	<0.8	<0.8	*2* J	<1	<0.8	
	10/27/2005	--	<600	<50	*860* J	<100	<100	<80	<80	<80	<80	<300	<200	<70	<80	<80	<100	<100	<80	
	2/8/2006	--	78	<0.5	320	<1	<1	<0.8	4 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*4* J	<1	<0.8	
	8/2/2006	--	9 J	<0.5	7 J	<1	<1	<0.8	*12*	<0.8	<0.8	<3	<2	1 J	<0.8	<0.8	**5**	<1	<0.8	
	11/30/2006	--	7 J	<0.5	<3	<1	<1	<0.8	*9*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/2/2007	--	18	<0.5	6 J	<1	<1	<0.8	*18*	<0.8	<0.8	<3	<2	1 J	<0.8	<0.8	**25**	<1	<0.8	
	11/24/2008	--	ND	ND	ND	ND	ND	ND	3.2	0.7	ND	ND	ND	ND	ND	ND	*1.2*	**0.89**	ND	ND

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(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
Inj-4	8/24/2004	--	<6	<0.5	<3	<1	<1	<0.8	*30*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**46**	<1	<0.8	
	Post-Injection Monitoring																			
	1/12/2005	--	93 J	<5	700	<10	<10	<8	<8	<8	<8	<30	<20	<7	<8	<8	**12** J	<10	<8	
	7/13/2005	--	96	<0.5	*870*	<1	<1	<0.8	**86**	2 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**100**	<1	<0.8	
	10/26/2005	--	140	<3	740	<5	<5	<4	**160**	<4	<4	<15	<10	<4	<4	<4	**19** J	<5	<4	
	2/8/2006	--	90 J	<5	260	<10	<10	<8	**450**	<8	<8	<30	<20	<7	<8	<8	**15** J	<10	<8	
	8/2/2006	--	71	<0.5	130	<1	<1	<0.8	**400**	7	<0.8	<3	<2	1 J	<0.8	<0.8	**26**	**3** J	<0.8	
	11/28/2006	--	31 J	<1	44	<2	<2	<2	**640**	9 J	<2	<6	<4	<1	<2	<2	**77**	<2	<2	
	11/28/2006 (Dup)	--	33	<0.5	49	<1	<1	*1* J	**740**	12	<0.8	<3	<2	0.8 J	<0.8	<0.8	**110**	**3** J	<0.8	
	3/2/2007	--	42	<0.5	59	<1	<1	*2* J	**490**	9	<0.8	<3	<2	<0.7	<0.8	<0.8	**150**	**2** J	<0.8	
	2/23/2009	--	109	ND	358	ND	ND	ND	*12.3*	ND	ND	ND	**7.2**	ND	ND	ND	ND	ND	ND	ND
Inj-5	8/23/2004	--	<120	<10	<60	<20	<20	<16	**610**	<16	<16	<60	<40	<14	<16	<16	**7,200**	<20	<16	
	Post-Injection Monitoring																			
	1/11/2005	--	160	<3	290	<5	<5	<4	6 J	<4	<4	<15	<10	<4	<4	<4	**6** J	<5	<4	
	3/11/2005	--	330 J	<10	650	<20	<20	<16	*19* J	<16	<16	<60	<40	<14	<16	<16	**25** J	<20	<16	
	7/12/2005	--	91	<0.5	*1,100*	<1	<1	<0.8	*37*	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**30**	<1	<0.8	
	10/27/2005	--	96	<0.5	550	<1	<1	*1* J	**820**	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**100**	**3** J	<0.8	
	10/27/2005 (Dup)	--	<600	<50	450 J	<100	<100	<80	**690**	<80	<80	<300	<200	<70	<80	<80	<100	<100	<80	
	2/8/2006	--	210	<1	790	<3	<3	*5* J	**2,400**	<2	<2	<8	<5	<2	<2	<2	**120**	**8** J	<2	
	2/8/2006 (Dup)	--	190	<1	760	<30	<3	*6* J	**2,400**	<2	<2	<8	<5	<2	<2	<2	**120**	**8** J	<2	
	8/2/2006	--	56	*0.7* J	790 J	2 J	*1* J	**35**	**20,000**	*45*	<0.8	*66*	<2	<0.7	<0.8	*1* J	**48**	**65**	<0.8	
	8/2/2006 (Dup)	--	31	*0.6* J	770 J	2 J	*1* J	**31**	**19,000**	*37*	<0.8	*64*	<2	<0.7	<0.8	*1* J	**44**	**58**	<0.8	
	11/30/2006	--	<300	<25	<150	<50	<50	<40	**29,000**	<40	<40	<150	<100	<35	<40	<40	<50	**80** J	<40	
	3/1/2007	--	<120	<10	63 J	<20	<20	**31** J	**25,000**	*28* J	<16	*63* J	<40	<14	<16	<16	<20	**60** J	<16	
	11/25/2008	--	ND	ND	ND	ND	ND	ND	**509**	ND	ND	ND	**42.7**	ND	ND	ND	ND	**25.6**	ND	ND
	3/2/2009	--	169	ND	167	ND	ND	ND	**2,900**	8.8	ND	ND	**27.6**	ND	ND	ND	**7.8**	**37.3**	ND	ND
INJ-6	2/20/2009	--	145	ND	97.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INJ-8	3/3/2009	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
INJ-9	11/25/2008	--	ND	ND	ND	ND	ND	ND	*35.2*	ND	ND	ND	**10.9**	ND	ND	ND	**129**	ND	ND	ND
	3/3/2009	--	99.9	ND	262	1.5	ND	*1.1*	**584**	6.7	ND	ND	**10.5**	1.4	ND	ND	**146**	**6.6**	ND	ND
PW-16	10/18/2018	--	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	<0.41	<0.35	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	0.21 J1	<0.20	<0.22	ND
TW-1	10/18/2000	--	10 J,a	<1	NA	NA	NA	<1	<1	<1	5 J	NA	<2	24	NA	<1	<1	NA	19	
RW-1	12/20/2002	*Well Inaccessible - No Sample Collected*																		
	5/6/2003	--	<6	<0.5	<3	<1	*2* J	*2* J	**260**	2 J	<0.8	<3	<2	<0.7	<0.8	<0.8	**430**	<1	<0.8	
	11/20/2003	--	<6	<0.5	<3	<1	**34**	*2* J	**570**	3 J	<0.8	<3	*2* J	<0.7	<0.8	<0.8	**330**	**1** J	<0.8	
	8/30/2004	--	<6	<0.5	<3	<1	**6**	*1* J	**300**	11	<0.8	<3	<2	<0.7	<0.8	<0.8	**930**	<1	<0.8	
	Post-Injection Monitoring																			
	1/13/2005	--	<120	<10	*2,200*	<20	<20	<16	<16	<16	<16	<60	<40	<14	<16	<16	<20	<20	<16	
	1/13/2005 (Dup)	--	<120	<10	*2,100*	<20	<20	<16	**73** J	<16	<16	<60	<40	<14	<16	<16	**49** J	<20	<16	
	3/11/2005	--	510	<10	**11,000**	<20	<20	<16	<16	<16	<16	<60	<10	<14	<16	<16	<20	<20	<16	
	7/12/2005	--	400 J	<13	**8,700**	<25	<25	<20	<20	<20	<20	<75	<50	<18	<20	<20	<25	<25	<20	
	10/26/2005	--	520	<3	**12,000**	<5	<5	<4	*12* J	<4	<4	<15	<10	<4	<4	<4	<5	<5	<4	
	2/7/2006	--	580	<1	**10,000**	<3	<3	<2	*36*	<2	<2	<8	<5	<2	<2	<2	<3	<3	<2	
	8/4/2006	--	660	<1	**7,800**	<2	<2	<2	<2	<2	<2	<6	<4	13	<2	<2	<2	<2	<2	
	11/28/2006	--	15 J	<0.5	5 J	<1	<1	<0.8	**110**	<0.8	<0.8	<3	<2	54	<0.8	<0.8	<1	**1** J	<0.8	
	3/1/2007	--	24	<0.5	21	<1	<1	<0.8	**240**	<0.8	<0.8	<3	<2	37	<0.8	<0.8	<1	**10**	<0.8	
	11/21/2008	--	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	0.64	ND	ND	ND	**0.64**	ND	ND
RW-2	*Post-Active Remedial System Operation*																			
	12/19/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/8/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	11/19/2003	--	<6	<0.5	<3	<0.8	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	9/1/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	16	<0.8	<0.8	<1	<1	<0.8	
	Post-Injection Monitoring																			
	3/17/2005	--	<6	<0.5	<3	<1	<1	<0.8	0.8 J	<0.8	<0.8	<3	<2	3 J	<0.8	<0.8	<1	<1	<0.8	
	11/2/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	8	<0.8	<0.8	<1	<1	<0.8	
	11/17/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	5 J	<0.8	<0.8	<1	<1	<0.8	
	11/21/2008	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
Equip Blank	3/23/1993	--	NA	<0.2	NA	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	3/24/1993	--	NA	<0.2	NA	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	3/25/1993	--	NA	<0.2	NA	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	<2.5	<0.5	<0.5	<0.5	<0.2	NA	<1.0	
	6/27/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/28/1994	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	**47**	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/28/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/29/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	6/30/1995	--	NA	<1.0	NA	NA	NA	<2.0	<1.0	<1.0	<1.0	NA	<5.0	<1.0	<1.0	<1.0	<1.0	NA	<3.0	
	7/30/1996	--	2 J	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.6* J	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	8/2/1996	--	<0.5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.9* J	0.3 J	<0.8	<0.8	0.4 J	NA	<0.5	
	8/5/1996	--	<0.5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*2* J	<0.8	<0.8	<0.8	<0.75	NA	<0.5	
	6/20/1997	--	NA	<0.75	NA	NA	NA	<0.75	<0.5	<0.75	<0.5	NA	*2* J	<0.75	NA	<0.75	<0.8	NA	<0.5	
	6/24/1998	--	<5	<0..8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.9* J	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/25/1998	--	<5	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.6* J	<0.8	<0.8	<0.8	<0.8	NA	<0.5	
	6/26/1998	--	NA	<0.8	NA	NA	NA	<0.8	<0.5	<0.8	<0.5	NA	*0.7* J	<0.8	NA	<0.8	<0.8	NA	<0.5	
	7/29/1998	--	4	<.8	NA	NA	NA	<0.8	<0.5	<.8	<0.5	NA	*4* J	<0.8	NA	<0.8	<0.5	NA	<0.5	
	6/22/1999	--	6	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*3*	0.3 J	NA	<0.5	<0.5	NA	<0.5	
	6/23/1999	--	2	<0.5	NA	NA	NA	*0.8*	<0.5	<0.5	<0.5	NA	*1*	<0.5	NA	<0.5	0.3	NA	<0.5	
	8/25/1999	--	2	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	*2*	<0.5	NA	<0.5	<6	NA	<0.5	
	8/26/1999	--	46	<6	NA	NA	NA	<6	<6	<5	<6	NA	**62**	<6	NA	<6	<0.5	NA	<6	
	3/30/2000	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	<1	NA	<0.5	
	10/16/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/17/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/18/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/19/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	1/5/2001	--	NA	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/22/2001	--	NA	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/26/2001	--	<3	<1	<3	NA	NA	<1	<1	<1	<1	<3	<2	<1	NA	<1	<1	<1	<1	
	5/6/2003	--	21	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	*2* J	<1	<0.8	
	5/7/2003	--	28	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	5/8/2003	--	28	<0.5	4 J	<1	<1	<0.8	3 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**12**	<1	<0.8	
	11/18/2003	--	150	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/19/2003	--	<6	<0.5	<3	<1	<8	<0.8	2 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	**8**	<1	<0.8	
	8/31/2004	--	32	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	9/1/2004	--	74	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/10/2005	--	31	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/11/2005	--	7 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/14/2005	--	17 J	<0.5	4 J	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/17/2005	--	13 J	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	1 J	<0.8	<0.8	<1	<1	<0.8	
	7/13/2005	--	49	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	1 J	<0.8	<0.8	<1	<1	<0.8	
	10/26/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	

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CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
Equip Blank	10/27/2005	--	92	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
(cont.)	10/31/2005	--	100	<0.5	<3	<1	<1	<0.8	1 J	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	3 J	<1	<0.8	
	11/2/2005	--	34	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/3/2005	--	42	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	5 J	<1	<0.8	
	11/14/2006	--	43	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	1 J	<1	<0.8	
	11/18/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/21/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	11/28/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	2/28/2007	--	26	<0.5	5	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
	3/6/2007	--	<6	<0.5	19	<1	<1	<0.8	<0.8	<0.8	<0.8	16	<2	<0.7	<0.8	<0.8	<1	<1	<0.8	
Trip Blank	6/22/1999	--	NA	<0.5	NA	NA	NA	<.5	<0.5	<0.5	<0.5	NA	0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	
	6/23/1999	--	NA	<0.5	NA	NA	NA	1	<0.5	<0.5	<0.5	NA	0.6	<0.5	NA	<0.5	<0.5	NA	<0.5	
	8/25/1999	--	NA	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	0.8	<0.5	NA	<0.5	<0.5	NA	<0.5	
	8/26/1999	--	<5	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	0.8	<0.5	<0.8	<0.5	0.3 J	NA	<0.5	
	3/30/2000	--	<6	<0.5	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	<0.5	NA	<0.5	
	10/17/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/19/2000	--	<6	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	1/5/2001	--	3 J	<1	NA	NA	NA	<1	<1	<1	<1	NA	<2	<1	NA	<1	<1	NA	<1	
	10/22/2001	--	NA	<1	NA	NA	NA	<1	<1	<1	<1	NA	<	<1	2	<1	<1	NA	<1	
	10/26/2001	--	<3	<1	<3	<1	<1	<1	<1	<1	<1	<3	<2	<1	<1	<1	<1	<1	<1	
	12/18/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	12/20/2002	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	5/9/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	11/22/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<0.8	<1	<0.8	
	11/26/2003	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	8/24/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	8/27/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	8/26/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	8/31/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	9/1/2004	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	3/10/2005	--	<20	<5	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	
	3/11/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	3/14/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	3/17/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	7/13/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	10/26/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	10/27/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	10/28/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	10/31/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	11/2/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	11/3/2005	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	11/17/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	11/22/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
Trip Blank	11/29/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
(cont.)	12/1/2006	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	3/6/2007	--	<6	<0.5	<3	<1	<1	<0.8	<0.8	<0.8	<0.8	<3	<2	<0.7	<0.08	<0.08	<1	<1	<0.8	
	10/18/2018	--	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	<0.41	<0.35	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	<0.16	<0.20	<0.22	ND
	10/29/2018	--	<1.7	<0.15	<2.1	<0.41	<0.39	<0.39	<0.41	<0.35	<0.18	<2.2	<1.6	<0.15	<0.38	<0.35	<0.16	<0.20	<0.22	ND
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	n-Butylbenzene NE Carbon disulfide 1,000 Chlorobenzene 100 Chloroethane 400 Chloroform 6 1,4-Dichlorobenzene 75 Dichlorodifluoromethane 1,000 1,2-Dichloropropane 5 2-Hexanone NE Isopropylbenzene NE Methyl chloride 30 Methyl tert-butyl ether 60 Naphthalene 100 n-Propylbenzene NE Tetrachloroethene 5 1,1,2,2-Tetrachloroethane 0.2 Tetrahydrofuran 50 Trimethylbenzenes (1,2,4- ar 480
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	n-Butylbenzene NE Carbon disulfide 200 Chlorobenzene 20 Chloroethane 80 Chloroform 0.6 1,4-Dichlorobenzene 15 Dichlorodifluoromethane 200 1,2-Dichloropropane 0.5 2-Hexanone NE Isopropylbenzene NE Methyl chloride 3 Methyl tert-butyl ether 12 Naphthalene 12 n-Propylbenzene NE Tetrachloroethene 0.5 1,1,2,2-Tetrachloroethane 0.02 Tetrahydrofuran 10 Trimethylbenzenes (1,2,4- and 1,3,5-) 96

Table 1. Groundwater Analytical Results Summary - VOCs
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	Acetone	Benzene	Methyl ethyl ketone (MEK)	1,1-Dichloroethane (DCA)	1,2-Dichloroethane (DCA)	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Ethylbenzene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Toluene	1,1,1-Trichloroethane (TCA)	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Xylenes	Other Detected
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	
NR 140 Enforcement Standards			9,000	5	4,000	850	5	7	70	100	700	500	5	800	200	5	5	0.2	2,000	
NR 140 Preventive Action Limits			1,800	0.5	800	85	0.5	0.7	7	20	140	50	0.5	160	40	0.5	0.5	0.02	400	
CAS No.			67-64-1	71-43-2	78-93-3	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	100-41-4	108-10-1	75-09-2	108-88-3	71-55-6	79-00-5	79-01-6	75-01-4	1330-20-7 (See Notes)	n-Butylbenzene 104-51-8 Carbon disulfide 75-15-0 Chlorobenzene 108-90-7 Chloroethane 75-00-3 Chloroform 67-66-3 1,4-Dichlorobenzene 106-46-7 Dichlorodifluoromethane 75-71-8 1,2-Dichloropropane 78-87-5 2-Hexanone 591-78-6 Isopropylbenzene 98-82-8 Methyl chloride 74-87-3 Methyl tert-butyl ether 1634-04-4 Naphthalene 91-20-3 n-Propylbenzene 103-65-1 Tetrachloroethene 127-18-4 1,1,2,2-Tetrachloroethane 79-34-5 Tetrahydrofuran 109-99-9 1,2,4-Trimethylbenzene 95-93-6 1,3,5-Trimethylbenzene 108-67-8

Abbreviations:
µg/ L = micrograms per liter or parts per billion (ppb) (Dup) = Duplicate Sample VOCs = Volatile Organic Compounds NA = Compound Not Analyzed ND = Compound Not Detected NE = No Standard Established

Notes:
NR 140 Enforcement Standards - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
NR 140 Preventive Action Limits - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
Bold+underlined values meet or exceed NR 140 enforcement standards.
Italic+underlined values meet or exceed NR 140 preventive action limits.

(1) All data presented for sample dates before 2002 were obtained from Leggette, Brashears & Grahm, Inc. data tables provided in their 2002 Keck Farm O&M report. GZA reviewed laboratory data sheets to verify the results for accuracy.
(2) GZA collected groundwater samples after 2001 utilizing low-flow sampling techniques and samples were analyzed by Lancaster Laboratories, Inc. of Lancaster, PA in accordance with USEPA Method 8260. Results are presented in µg/L.
(3) Carbon disulfide was reported for a field blank at 3 µg/L in August 1996.
(4) Chlorobenzene was reported at 0.7[a] µg/L in a field blank in March 2000.
(5) Results are from the final samples collected during the time-sequence sampling event performed between April and July 2002.
(6) The remedial system consisting of groundwater extraction and treatment and soil vapor extraction was discontinued on October 1, 2002.
(7) Carbon disulfide (89 µg/L) was detected in the field blank from August 31, 2004.

All 2018 results collected by SCS Engineers.
Table shows only VOCs that were detected.

Laboratory Notes/Qualifiers:
a = Compound was reported in the associated field and/or trip blank as well as the monitoring well sample.
F1 = MS and/or MSD Recovery is outside acceptance limits.
J = Concentration reported below the laboratory method detection limit; value is an estimate.
J1 = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
(1) Chloromethane = MS/MSD RPD exceeds control limits
(2) Chloroethane = LCS or LCSD is outside acceptance limits.

Created by: LMH Date: 7/30/2018
Last revision by: LMH Date: 11/14/2018
Checked by: AJR Date: 11/15/2018

Table 2. Summary of Enforcement Standard Exceedances - October 2018
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00
(Results are in µg/L)

Sample	Date	Lab Notes	1,1-Dichloroethylene (DCE)	cis-1,2-Dichloroethylene (DCE)	trans-1,2-Dichloroethylene (DCE)	Toluene	1,1,2-Trichloroethane (TCA)	Trichloroethene (TCE)	Vinyl Chloride	Other Exceedances	
MW-1C	10/18/2018	--	**8.7** J	**2,500**	**330**	1.7 J	**17**	**12,000**	**63**	Chloroform	**6.5** J
MW-3	10/18/2018	--	<2.0	<2.0	<1.7	<0.76	<1.8	**3,600**	<1.0	None	
MW-4	10/18/2018	--	<0.39	1.1	<0.35	<0.15	<0.35	**79**	<0.20	None	
MW-5	10/18/2018	--	1.2	**890**	12	**1,200**	<0.35	**1,700**	**7.8**	1,1,2,2-Tetrachloroethane	**2.8**
MW-6	10/18/2018	--	<7.8	**76**	<7.0	**1,000**	<7.0	**8,600**	**11** J	None	
MW-7	10/18/2018	(1)	<0.39	0.51 J	<0.35	<0.15	<0.35	**130**	<0.20	None	
MW-8	10/18/2018	--	<0.39	3.6	<0.35	0.15 J	<0.35	**240**	<0.20	None	
MW-9	10/18/2018	--	<39	**11,000**	**240**	90	<35	**100,000**	**150**	None	
MW-19C	10/18/2018	--	**120**	**82,000**	**240**	<7.6	<18	**4,700**	**87**	None	
MW-20C	10/18/2018	--	<0.39	3.7	0.70 J	6.1	<0.35	**200** F1	<0.20	None	
MW-28D	10/18/2018	--	0.77 J	15	4.3	0.28 J	<0.35	**190**	<0.20	None	
	10/18/2018 (Dup)	--	1.1	15	5.2	0.18 J	<0.35	**150**	<0.20	None	
MW-35D	10/29/2018	--	<0.39	2.0	**160**	0.53	<0.35	0.92	**1.3**	None	
MW-36D	10/29/2018	--	<0.39	**81**	24	<0.15	<0.35	**32**	**17**	None	
MW-40D	10/29/2018	--	<2.0	**2,400**	70	0.87 J	<1.8	**1,500**	**210**	None	
MW-43D	10/29/2018	(2)	<0.78	<0.82	<0.70	<0.30	<0.70	**880**	<0.41	None	
MW-44D	10/29/2018	--	2.3	**1,100**	94	<0.30	<0.70	**16**	**450**	None	
	10/29/2018 (Dup)	--	1.9 J	**1,000**	91	<0.30	<0.70	**17**	**480**	None	
MW-45D	10/29/2018	--	<0.39	38	1.5	<0.15	<0.35	**36**	**1.4**	None	
MW-46D	10/29/2018	--	<0.39	<0.41	<0.35	<0.15	<0.35	0.30 J	**0.30** J	None	
NR 140 Enforcement Standards			7	70	100	800	5	5	0.2	Chloroform	6
										1,1,2,2-Tetrachloroethane	0.2
CAS No.			75-35-4	156-59-2	156-60-5	108-88-3	79-00-5	79-01-6	75-01-4	Chloroform	67-66-3
										1,1,2,2-Tetrachloroethane	79-34-5

Abbreviations:
µg/ L = micrograms per liter or parts per billion (ppb)

Notes:
NR 140 Enforcement Standards - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
NR 140 Preventive Action Limits - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
Bold+underlined values meet or exceed NR 140 enforcement standards.

Laboratory Notes/Qualifiers:
F1 = MS and/or MSD Recovery is outside acceptance limits.
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
(1) Chloromethane = MS/MSD RPD exceeds control limits
(2) Chloroethane = LCS or LCSD is outside acceptance limits.

Created by: LMH Date: 7/30/2018
Last revision by: LMH Date: 12/10/2018
Checked by: REL Date: 12/10/2018

Table 3. Water Level Summary
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00

	Depth to Water in feet below top of well casing																											
Well Number	**MW-1C**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10D**	**MW-11D**	**MW-12D**	**MW-13C**	**MW-14D**	**MW-15**	**MW-16C**	**MW-17**	**MW-18D**	**MW-19C**	**MW-20C**	**MW-21D**	**MW-22C**	**MW-23D**	**MW-24**	**MW-25C**	**MW-26C**	**MW-27**	**MW-28D**	**MW-29**
Well by Area	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**2**	**1**	**1**	**1**	**N**	**N**	**N**	**N**	**N**	**N**	**1**	**1**	**N**	**1**	**1**	**1**	**3**	**2**	**1**	**1**	**1**
Water Depth Measurement Date																													
November 12, 2002	53.71	45.99	25.66	40.04	41.19	47.43	42.07	62.32	65.62	53.89	51.75	48.95	68.02	67.70	60.36	67.73	60.84	68.15	47.96	52.71	47.28	15.13	15.39	10.71	38.98	32.83	43.14	53.24	48.56
January 16, 2003	54.45	47.39	26.67	41.58	42.82	48.46	43.11	63.36	66.47	54.64	52.54	49.71	68.79	68.53	61.81	68.58	62.21	68.93	48.78	53.53	48.13	15.98	16.23	11.55	46.50	33.65	44.57	54.07	49.64
May 5, 2003	54.42	48.47	27.11	41.75	NM	47.30	44.55	NM	68.72	54.42	53.35	49.48	NM	68.52	63.87	68.55	64.18	68.88	48.50	53.28	47.80	15.61	15.82	11.01	40.22	33.48	42.85	53.83	48.78
November 20, 2003	55.46	49.74	28.43	44.40	45.65	50.91	46.14	67.19	70.31	55.66	53.64	NM	70.03	69.77	66.30	69.87	66.68	70.18	49.90	54.58	47.68	16.95	17.17	12.21	40.62	34.66	47.12	55.06	51.78
October 27, 2004	51.14	41.07	22.13	34.16	34.40	42.40	38.61	51.21	61.30	51.39	49.25	NM	64.58	64.39	55.18	65.37	55.77	65.78	44.41	50.22	44.90	12.68	12.96	8.23	36.12	30.63	37.87	50.78	43.63
November 22, 2004	51.31	42.01	22.55	35.27	36.00	43.24	38.99	58.55	61.49	51.56	49.35	NM	65.80	65.53	55.81	65.63	56.35	65.90	44.63	50.44	45.06	12.78	13.15	8.13	36.24	30.85	38.84	50.96	44.45
March 18, 2005	52.14	44.80	23.87	37.95	39.07	45.66	41.29	61.20	64.19	52.31	50.23	NM	66.69	66.40	58.99	66.42	59.51	66.73	45.63	51.21	44.61	NM	NM	NM	54.17	31.62	40.89	51.72	46.76
April 21, 2005	52.05	44.83	23.58	37.76	38.79	45.44	41.21	61.29	64.69	52.25	50.08	NM	66.59	66.36	589.08	66.35	59.66	66.75	45.48	51.15	45.88	13.56	13.85	8.45	37.61	31.58	40.63	51.68	46.66
October 18, 2018	43.94	27.32	12.57	19.18	19.59	29.10	32.45	51.77	57.07	44.09	41.95	NM	NM	58.40	30.74	58.58	41.95	58.75	36.62	43.03	37.80	5.71	5.84	2.70	28.01	24.30	24.86	43.62	30.75

	Ground Water Elevation in feet above mean sea level (amsl)																											
Well Number	**MW-1C**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10D**	**MW-11D**	**MW-12D**	**MW-13C**	**MW-14D**	**MW-15**	**MW-16C**	**MW-17**	**MW-18D**	**MW-19C**	**MW-20C**	**MW-21D**	**MW-22C**	**MW-23D**	**MW-24**	**MW-25C**	**MW-26C**	**MW-27**	**MW-28D**	**MW-29**
Well by Area	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**2**	**1**	**1**	**1**	**N**	**N**	**N**	**N**	**N**	**N**	**1**	**1**	**N**	**1**	**1**	**1**	**3**	**2**	**1**	**1**	**1**
Top of Casing Elevation (feet amsl) 2002 through 2005	870.88	868.98	847.19	863.54	865.32	869.84	861.07	883.07	886.62	871.08	868.96	866.10	884.32	884.07	884.20	884.44	884.42	884.44	865.69	870.01	863.80	832.59	832.54	832.68	855.01	848.33	866.24	870.47	870.37
Top of Casing Elevation (feet amsl) 2018	870.79	868.85	847.06	863.42	865.21	869.75	861.03	883.01	886.57	870.89	868.84	865.99	884.12	883.49	884.09	884.21	884.36	884.37	865.71	869.96	863.51	832.34	832.75	832.50	854.83	848.10	866.00	870.41	870.07
Grade Elevation (ft) 2002 through 2005	868.90	867.00	845.40	861.70	863.50	868.00	859.30	881.40	884.80	868.90	866.90	864.10	882.00	881.80	882.10	881.80	882.00	882.20	863.40	867.50	861.80	831.10	830.70	830.30	853.10	846.20	864.20	867.90	868.10
Grade Elevation (ft) 2018	868.75	867.04	845.54	861.63	864.02	867.98	859.35	873.81	885.60	868.69	866.33	863.92	881.72	881.76	881.98	881.61	882.23	881.80	863.58	867.62	861.92	831.16	830.66	830.40	853.32	846.12	864.18	867.92	868.10
Screen Length (ft)	10	5	5	5	5	5	5	5	5	10	10	10	5	5	10	5	10	5	5	5	5	5	5	10	5	5	5	5	5
Screen Interval (ft below grade)	100 to 110	60.5 to 65.5	35 to 40	64.4 to 65.4	55 to 60	60 to 65	50 to 55	65 to 70	80 to 85	131 to 141	130 to 140	130 to 140	131 to 136	168 to 173	66 to 76	132 to 137	66 to 76	169 to 174	107 to 112	108 to 113	120 to 125	82 to 87	120 to 125	20 to 30	124 to 129	115 to 120	85 to 90	188 to 193	80 to 85
Top of Well Screen Elevation (ft msl)	768.9	806.5	810.4	801.3	808.5	808.0	809.3	816.4	804.8	737.9	736.9	734.1	751.0	713.8	816.1	749.8	816.0	713.2	756.4	760.0	741.8	749.1	710.7	810.3	729.1	731.2	779.2	679.9	788.1
Bottom of Well Screen Elevation (ft msl)	758.9	801.5	805.4	796.3	803.5	803.0	804.3	811.4	799.8	727.9	726.9	724.1	746.0	708.8	806.1	744.8	806.0	708.2	751.4	755.0	736.8	744.1	705.7	800.3	724.1	726.2	774.2	674.9	783.1
Water Elevation Measurement Date																													
November 12, 2002	817.17	822.99	821.53	823.50	824.13	822.41	819.00	820.75	821.00	817.19	817.21	817.15	816.30	816.37	823.84	816.71	823.58	816.29	817.73	817.30	816.52	817.46	817.15	821.97	816.03	815.50	823.10	817.23	821.81
January 16, 2003	816.43	821.59	820.52	821.96	822.50	821.38	817.96	819.71	820.15	816.44	816.42	816.39	815.53	815.54	822.39	815.86	822.21	815.51	816.91	816.48	815.67	816.61	816.31	821.13	808.51	814.68	821.67	816.40	820.73
May 5, 2003	816.46	820.51	820.08	821.79	NM	822.54	816.52	NM	817.90	816.66	815.61	816.62	NM	815.55	820.33	815.89	820.24	815.56	817.19	816.73	816.00	816.98	816.72	821.67	814.79	814.85	823.39	816.64	821.59
November 20, 2003	815.42	819.24	818.76	819.14	819.67	818.93	814.93	815.88	816.31	815.42	815.32	NM	814.29	814.30	817.90	814.57	817.74	814.26	815.79	815.43	816.12	815.64	815.37	820.47	814.39	813.67	819.12	815.41	818.59
October 27, 2004	819.74	827.91	825.06	829.38	830.92	827.44	822.46	831.86	825.32	819.69	819.71	NM	819.74	819.68	829.02	819.07	828.65	818.66	821.28	819.79	818.90	819.91	819.58	824.45	818.89	817.70	828.37	819.69	826.74
November 22, 2004	819.57	826.97	824.64	828.27	829.32	826.60	822.08	824.52	825.13	819.52	819.61	NM	818.52	818.54	828.39	818.81	828.07	818.54	821.06	819.57	818.74	819.81	819.39	824.55	818.77	817.48	827.40	819.51	825.92
March 18, 2005	818.74	824.18	823.32	825.59	826.25	824.18	819.78	821.87	822.43	818.77	818.73	NM	817.63	817.67	825.21	818.02	824.91	817.71	820.06	818.80	819.19	NM	NM	NM	800.84	816.71	825.35	818.75	823.61
April 21, 2005	818.83	824.15	823.61	825.78	826.53	824.40	819.86	821.78	821.93	818.83	818.88	NM	817.73	817.71	295.12	818.09	824.76	817.69	820.21	818.86	817.92	819.03	818.69	824.23	817.40	816.75	825.61	818.79	823.71
October 18, 2018	826.85	841.53	834.49	844.24	845.62	840.65	828.58	831.24	829.50	826.80	826.89	NM	NM	825.09	853.35	825.63	842.41	825.62	829.09	826.93	825.71	826.63	826.91	829.80	826.82	823.80	841.14	826.79	839.32

Table 3. Water Level Summary
Keck Farm Property - Watertown, WI / SCS Engineers Project #25218118.00

	Depth to Water in feet below top of well casing																												
Well Number	**MW-30D**	**MW-31D**	**MW-32D**	**MW-33D**	**MW-34D**	**MW-35D**	**MW-36**	**MW-36D**	**MW-37D**	**MW-38D**	**MW-39D**	**MW-40D**	**MW-41D**	**MW-42D**	**MW-43D**	**MW-44D**	**MW-45D**	**MW-46D**	**TW-1**	**RW-1**	**RW-2**	**INJ-1**	**INJ-2**	**INJ-3**	**INJ-4**	**INJ-5**	**INJ-6**	**INJ-7**	**INJ-8**	**INJ-9**
Well by Area	**1**	**3**	**2**	**3**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**N**	**1**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Water Depth Measurement Date	50.01	53.29	4.41	2.31	7.96	NM	NM	NM	NM	NM	NM	-	-	-	-				68.40	44.60	38.88	-	-	-	-	-				
November 12, 2002	50.60	Aban.	5.05	3.05	8.65	45.32	36.42	41.31	42.27	43.16	37.93	-	-	-	-				68.21	45.51	39.74	-	-	-	-	-				
January 16, 2003	50.15	Aban.	4.95	2.92	8.50	45.26	39.00	44.27	42.24	43.07	37.97	-	-	-	-				NM	45.37	39.52	-	-	-	-	-				
May 5, 2003	51.19	Aban.	6.17	4.07	9.59	46.55	40.40	45.55	43.51	44.34	39.13	-		-	-				70.45	46.69	40.58	-	-	-	-	-				
November 20, 2003	47.92	Aban.	2.24	0.32	5.90	42.01	27.94	41.02	39.00	39.88	35.14	44.21	41.19	42.32	29.59				66.08	41.52	36.50	45.56	NM	45.04	NM	NM				
October 27, 2004	48.13	Aban.	2.32	0.63	6.13	42.21	29.25	41.20	39.20	40.04	35.31	44.43	41.35	42.49	29.73				66.24	42.19	36.73	45.66	32.52	45.18	45.54	47.16				
November 22, 2004	48.53	Aban.	3.11	1.19	6.78	43.02	28.44	42.02	40.05	40.91	36.06	45.25	42.19	43.34	30.55				67.13	43.59	37.55	46.45	43.32	45.97	46.42	48.02				
April 21, 2005	48.48	Aban.	3.07	1.15	6.69	42.93	28.28	41.95	39.97	40.82	36.04	45.15	42.10	43.22	30.36				67.09	43.46	37.48	46.36	43.21	45.93	46.22	47.90				
October 18, 2018	41.27	Aban.	0.00	0.00	0.00	34.70	10.65	33.57	31.62	32.50	28.63	36.85	33.74	34.91	22.41	37.46	33.60	9.77												

	Ground Water Elevation in feet above mean sea level (amsl)																												
Well Number	**MW-30D**	**MW-31D**	**MW-32D**	**MW-33D**	**MW-34D**	**MW-35D**	**MW-36**	**MW-36D**	**MW-37D**	**MW-38D**	**MW-39D**	**MW-40D**	**MW-41D**	**MW-42D**	**MW-43D**	**MW-44D**	**MW-45D**	**MW-46D**	**TW-1**	**RW-1**	**RW-2**	**INJ-1**	**INJ-2**	**INJ-3**	**INJ-4**	**INJ-5**	**INJ-6**	**INJ-7**	**INJ-8**	**INJ-9**
Well by Area	**1**	**3**	**2**	**3**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**N**	**1**	**3**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Top of Casing Elevation (feet amsl) 2002 through 2005	864.85	868.92	819.76	817.35	822.86	861.56	860.58	860.55	858.51	859.46	852.81	863.84	860.76	861.93	849.25	--	--	--	884.75	861.78	854.45	865.11	861.72	864.57	864.97	866.56	-	-	-	-
Top of Casing Elevation (feet amsl) 2018	865.14	Aban.	819.53	817.09	822.57	861.64	860.52	860.54	858.46	859.46	852.75	863.82	860.63	861.81	848.99	864.41	860.36	836.24	884.70	861.60	854.24	864.72	861.83	864.37	863.38	867.80	863.94	864.32	869.48	869.90
Grade Elevation (ft) 2002 through 2005	862.70	867.50	817.20	815.40	820.90	859.10	858.20	858.50	856.10	857.10	850.90	861.30	858.10	859.40	846.00	--	--	--	882.40	859.80	852.50	862.10	859.60	861.70	861.00	863.30	--	--	--	--
Grade Elevation (ft) 2018	862.84	Aban.	817.16	815.56	821.17	858.86	857.91	858.07	855.50	856.74	850.31	861.25	858.12	859.12	846.63	861.76	857.13	834.42	882.58	859.59	852.37	861.97	858.93	861.56	861.78	862.66	861.25	861.61	867.08	867.70
Screen Length (ft)	10	5	10	10	10	10	15	10	10	10	10	10	10	10	10	10	10	10	25	40	40	70	70	70	70	70	-	-	-	-
Screen Interval (ft below grade)	200 to 210	143 to 148	95 to 105	75 to 85	82 to 92	139 to 149	30 to 45	130 to 140	130 to 140	130 to 140	120 to 130	127 to 137	128 to 138	135 to 145	146 to 156	132 to 142	124 to 134	115 to 125	149 to 174	130 to 170	126 to 166	118 to 188	116 to 186	113 to 183	115 to 185	120 to 190	-	-	-	-
Top of Well Screen Elevation (ft msl)	662.7	724.5	722.2	740.4	738.9	720.1	828.2	728.5	726.1	727.1	730.9	734.3	730.1	724.4	700.0	729.4	732.7	719.2	733.4	729.8	726.5	744.1	743.6	748.7	746.0	743.3	-	-	-	-
Bottom of Well Screen Elevation (ft msl)	652.7	719.5	712.2	730.4	728.9	710.1	813.2	718.5	716.1	717.1	720.9	724.3	720.1	714.4	690.0	719.4	722.7	709.2	708.4	689.8	686.5	674.1	673.6	678.7	676.0	673.3	-	-	-	-
Water Elevation Measurement Date	814.84	815.63	815.35	815.04	814.90	NM	NM	NM	NM	NM	NM	-	-	-	-	--	--	--	816.35	817.18	815.57	-	-	-	-	-	-	-	-	-
November 12, 2002	814.25	Aban.	814.71	814.30	814.21	816.24	824.16	819.24	816.24	816.30	814.88	-	-	-	-	--	--	--	816.54	816.27	814.71	-	-	-	-	-	-	-	-	-
January 16, 2003	814.70	Aban.	814.81	814.43	814.36	816.30	821.58	816.28	816.27	816.39	814.84	-	-	-	-	--	--	--	NM	816.41	814.93	-	-	-	-	-	-	-	-	-
May 5, 2003	813.66	Aban.	813.59	813.28	813.27	815.01	820.18	815.00	815.00	815.12	813.68	-	-	-	-	--	--	--	814.30	815.09	813.87	-	-	-	-	-	-	-	-	-
November 20, 2003	816.93	Aban.	817.52	817.03	816.96	819.55	832.64	819.53	819.51	819.58	817.67	819.63	819.57	819.61	819.66	--	--	--	818.67	820.26	817.95	819.55	NM	819.53	NM	NM	-	-	-	-
October 27, 2004	816.72	Aban.	817.44	816.72	816.73	819.35	831.33	819.35	819.31	819.42	817.50	819.41	819.41	819.44	819.52	--	--	--	818.51	819.59	817.72	819.45	829.20	819.39	819.43	819.40	-	-	-	-
November 22, 2004	816.32	Aban.	816.65	816.16	816.08	818.54	832.14	818.53	818.46	818.55	816.75	818.59	818.57	818.59	818.70	--	--	--	817.62	818.19	816.90	818.66	818.40	818.60	818.55	818.54	-	-	-	-
April 21, 2005	816.37	Aban.	816.69	816.20	816.17	818.63	832.30	818.60	818.54	818.64	816.77	818.69	818.66	818.71	818.89	--	--	--	817.66	818.32	816.97	818.75	818.51	818.64	818.75	818.66	-	-	-	-
October 18, 2018	823.87	Aban.	819.53	817.09	822.57	826.94	849.87	826.97	826.84	826.96	824.12	826.97	826.89	826.90	826.58	826.95	826.76	826.47	-	-	-	-	-	-	-	-	-	-	-	-

Abbreviations:

amsl = above mean sea level
msl = mean sea level
ft = feet
NM = not measured

Notes:

1) "1", "2", or "3" denote that the monitoring well is located in sources defined as Areas 1, 2, or 3, respectively.
2) "N" denotes that the monitoring well is not located in any particular source area.
3) Elevations for wells MW1 through MW-34, TW-1, RW-1, and RW-2 obtained from Legette, Brashears, & Graham, Inc. tables.
4) Wells MW-35 through MW-43 and Inj-1 through ING-5 were surveyed by GZA GeoEnvironmental, Inc. utilizing a laser level with the elevations calculated relative to existing wells.
5) The water level measured for MW-25C is not representative of static water level conditions. More than a month is required for the water level in the well to return to static conditions after sampling [January 16, 2003 and March 18, 2005].
6) "NM" denotes that the water level in the wells was not measured due to various reasons.
7) 2018 elevation information from July 2018 survey performed by Burse Surveying and Engineering, Inc.
8) 2018 top of casing and ground surface elevations for wells INJ-6, INJ-7, MW-35D, MW-36, MW-36D, MW-37D, MW-38D, MW-44D, and MW45D were surveyed by GPS and are approximate. The height of the corn surrounding these wells prohibited use of a level (i.e., line of sight) to determine the elevations to the specified accuracy.
9) October 18, 2018: MW-13C not measured due to blockage in well. MW-12D was obstructed.

Notes 1 through 6 above and the November 12, 2002 through April 21, 2005 measurements were made by others.
2018 measurements and related notes added by SCS Engineers.

Created by: LMH Date: 7/17/2018
Last revision by: LMH Date: 11/26/2018
Checked by: JSN Date: 11/27/2018

I:\25218118.00\Data and Calculations\Tables\[Table 3_Water Level Summary.xlsx]levels

Figures

LEGEND

- MONITORING WELL
- INJECTION WELL
- RECOVERY WELL

NOTES

1. BASE PHOTO FROM WORLD IMAGERY MAP IN ARCMAP 10.4, SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
2. WELL LOCATIONS SURVEYED BY BURSE SURVEYING AND ENGINEERING, INC. IN JULY 2018.

N

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25218118.00	DRAWN BY:	BJM
DRAWN:	07/19/18	CHECKED BY:	RL
REVISED:	11/29/18	APPROVED BY:	RL 12/13/18

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: DNR – CENTRAL OFFICE
101 SOUTH WEBSTER ST.
MADISON, WI 53707

SITE: KECK FARM
WATERTOWN, WI
BRRTS#02-28-000945

SITE PLAN

FIGURE 1

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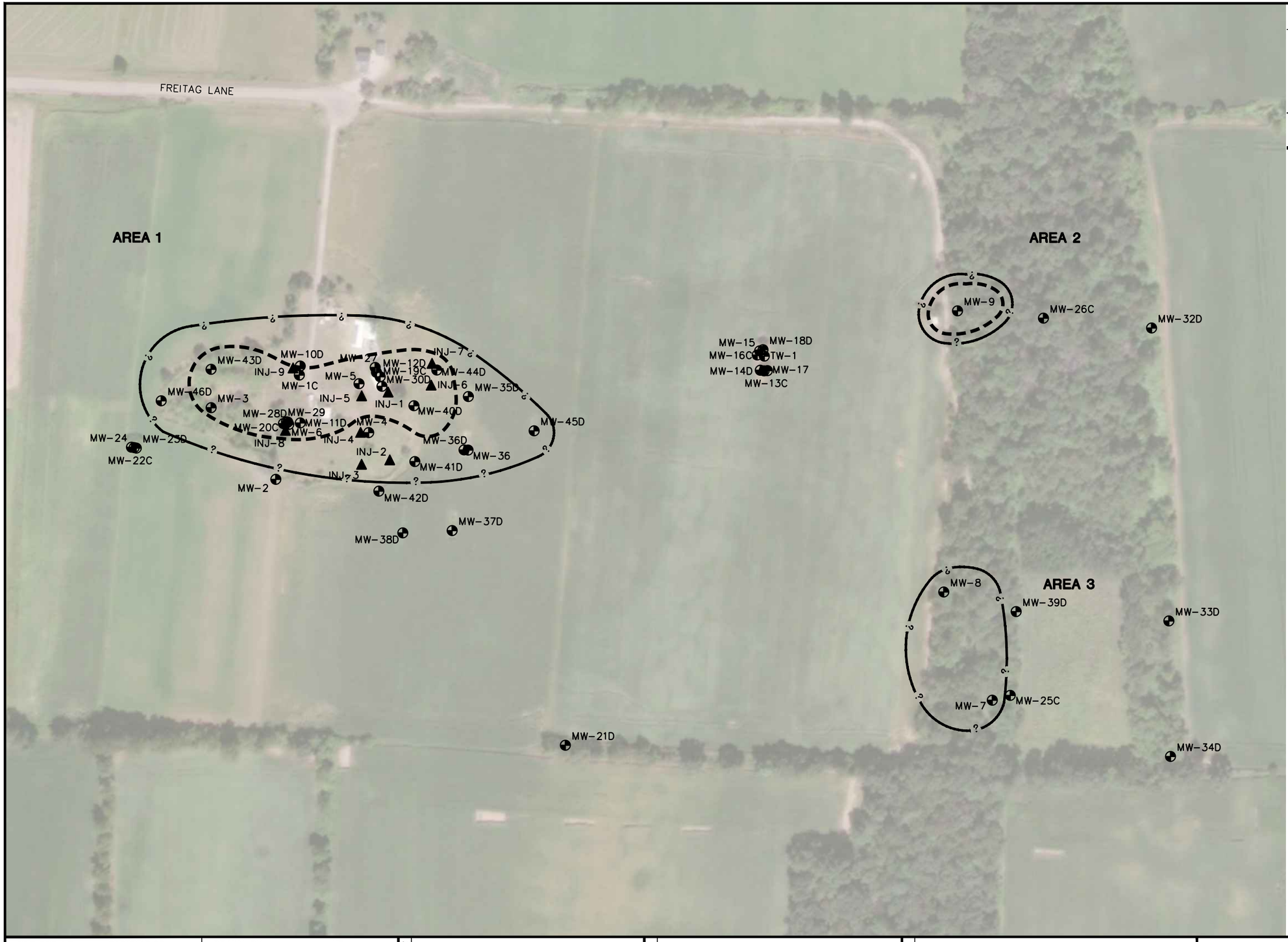

LEGEND

- MONITORING WELL
- INJECTION WELL
- RECOVERY WELL
- ESTIMATED EXTENT OF GROUNDWATER EXCEEDING ENFORCEMENT STANDARDS
- ESTIMATED EXTENT OF GROUNDWATER EXCEEDING 100X ENFORCEMENT STANDARDS

NOTES

1. BASE PHOTO FROM WORLD IMAGERY MAP IN ARCMAP 10.4, SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
2. WELL LOCATIONS SURVEYED BY BURSE SURVEYING AND ENGINEERING, INC. IN JULY 2018.
3. THE EXTENTS SHOWN ARE ESTIMATES BASED ON MOST RECENT GROUNDWATER SAMPLING RESULTS. THE EXTENTS DO NOT TAKE INTO ACCOUNT SITE HISTORY WHICH INCLUDED SEVERAL AREAS OF WASTE DISPOSAL AND MAY BE LIMITED BY LOCATIONS WHERE WELLS ARE INSTALLED AND/OR SAMPLED.

N

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25218118.00	DRAWN BY:	KP
DRAWN:	11/29/18	CHECKED BY:	RL
REVISED:	12/11/18	APPROVED BY:	RL 12/13/18

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT

DNR – CENTRAL OFFICE
101 SOUTH WEBSTER ST.
MADISON, WI 53707

SITE

KECK FARM
WATERTOWN, WI
BRRTS#02-28-000945

GROUNDWATER EXCEEDANCES MAP
OCTOBER 2018

FIGURE
2

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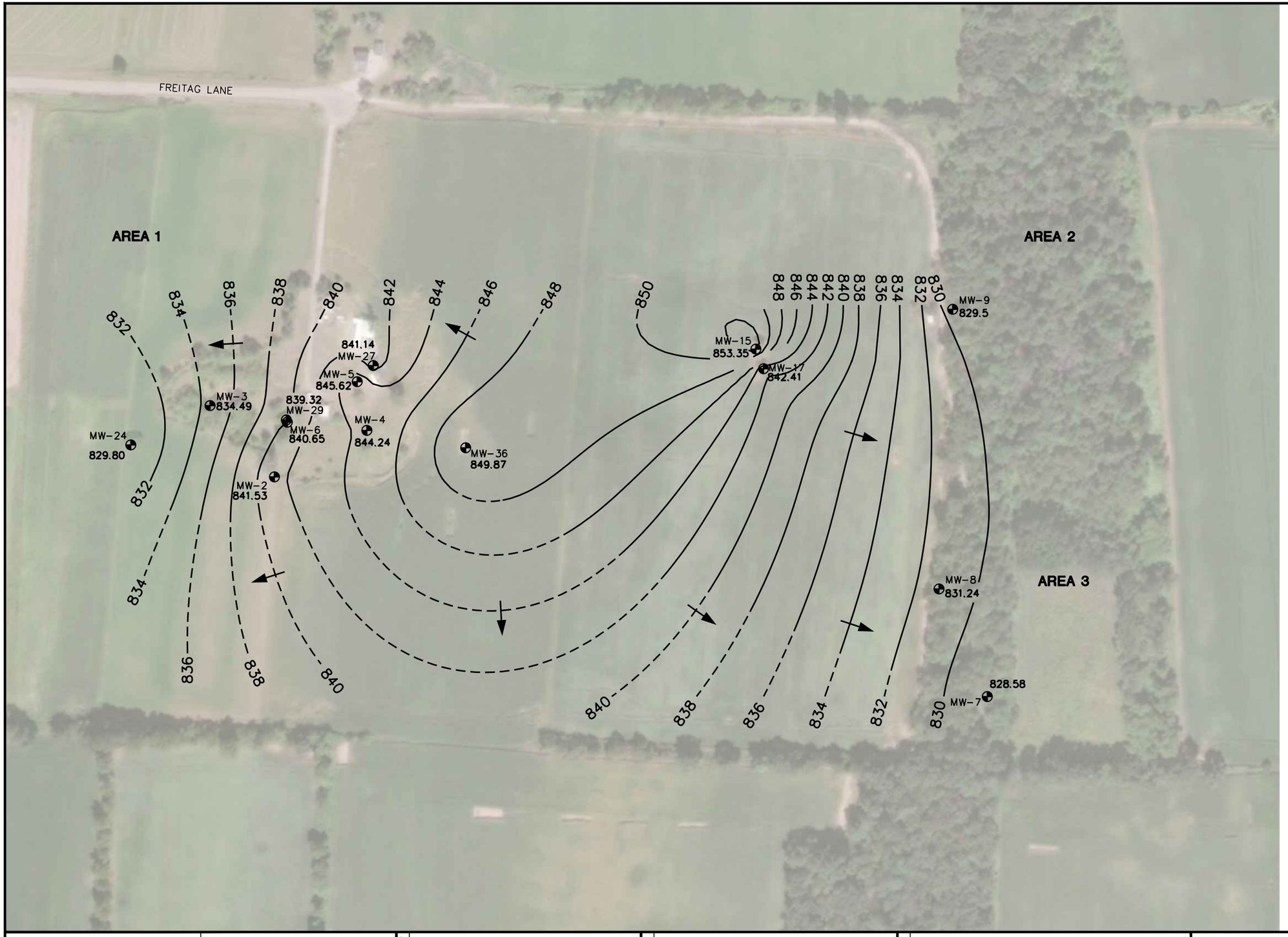

LEGEND

- MONITORING WELL
- **841.53** WATER TABLE ELEVATION MEASURED ON 10/18/18
- WATER TABLE CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES

1. BASE PHOTO FROM WORLD IMAGERY MAP IN ARCMAP 10.4, SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
2. WELL LOCATIONS SURVEYED BY BURSE SURVEYING AND ENGINEERING, INC. IN JULY 2018.
3. ELEVATIONS BASED ON WATER LEVEL FOR MONITORING ELLS WITH NO LETTER DESIGNATION ASSUMED TO BE SCREENED IN TILL.

N

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25218118.00	DRAWN BY:	KP
DRAWN:	11/29/18	CHECKED BY:	RL
REVISED:	12/13/18	APPROVED BY:	RL 12/13/18

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: DNR – CENTRAL OFFICE
101 SOUTH WEBSTER ST.
MADISON, WI 53707

SITE: KECK FARM
WATERTOWN, WI
BRRTS#02-28-000945

WATER TABLE ELEVATION CONTOUR MAP
OCTOBER 2018

FIGURE 3

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FREITAG LANE

AREA 1

AREA 2

AREA 3

MW-43D 826.58

MW-10D 826.8

NM MW-12D

826.95 MW-44D

MW-30D 823.87

MW-35D 826.94

MW-46D 826.47

MW-28D 826.89

MW-11D 826.79

MW-40D 826.97

MW-45D 826.76

MW-23D 826.91

MW-36D 826.97

MW-41D 826.89

MW-42D 826.90

MW-37D 826.84

MW-38D 826.96

MW-21D 825.71

MW-18D 825.62

MW-14D 825.09

MW-32D 819.53

MW-39D 824.12

MW-33D 817.09

MW-34D 822.57

826

825

824

823

822

821

820

819

818

LEGEND

⊕	MONITORING WELL
826.80	GROUNDWATER ELEVATION MEASURED ON 10/18/18
NM	NOT MEASURED
——	GROUNDWATER CONTOUR
→	APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES

1. BASE PHOTO FROM WORLD IMAGERY MAP IN ARCMAP 10.4, SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
2. WELL LOCATIONS SURVEYED BY BURSE SURVEYING AND ENGINEERING, INC. IN JULY 2018.
3. ELEVATIONS BASED ON WATER LEVELS FOR "D" MONITORING WELLS ASSUMED TO BE SCREENED IN SANDSTONE.

N

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25218118.00	DRAWN BY:	KP
DRAWN:	11/29/18	CHECKED BY:	RL
REVISED:	11/29/18	APPROVED BY:	RL 12/13/18

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT

DNR – CENTRAL OFFICE
101 SOUTH WEBSTER ST.
MADISON, WI 53707

SITE

KECK FARM
WATERTOWN, WI
BRRTS#02-28-000945

BEDROCK GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 2018

FIGURE 4

I:\25218118.00\Drawings\Wtbl.dwg, 12/13/2018 10:52:28 AM

Attachment A

Groundwater Sampling Field Sheets

Monitoring Well Field Sheets

Facility / Project Name: Keck Farm

Facility ID#: _____

Year: 2018

Weather Conditions: _____

Person(s) Sampling: Charlie Bliss + Gary Sterkel

Page _____ **of** _____

Well Name	Sample Date	Well Condition	Depth to Water (feet)	Total Depth (feet)	Purge Date	Volume Purged (gal)	Sampling Device	Conductance (uMhos / cm)	Field Temp (Celsius)	Field pH	Odor	Color	Turbidity	ORP	Sample Time	Comments
PARAM #								94	10	400	1	2	3	90		
MW-9	10/18/18	Fine	57.66	89.7	10/17/18	6	Bailer	863	9.9	8.93	Y	N	Y		1020	Dry @ 6 gallons
MW-8	10/18/18	Fine	52.68	72.2	10/17/18	4	Bailer	706	9.8	8.37	N	N	Y		1050	Dry @ 4 gallons
MW-7	10/18/18	Fine	32.37	57.7	10/17/18	5	Bailer	673	9.5	8.16	N	N	N		1100	Dry @ 5 gallons
PW-16	10/18/18						Spigot	1045	41.3	9.03	N	N	N	-54.6	1255	Private well, typical Sample Point identified by owner. Spigot ran 10 minutes before sampling.

Monitoring Well Field Sheets

Facility / Project Name: [redacted] Keck Farm

Facility ID#: [redacted] 25218118

Weather Conditions: _____ Year: _____

Person(s) Sampling: _____ Page _____ of _____

Well Name	Sample Date	Well Condition	Depth to Water (feet)	Total Depth (feet)	Purge Date	Volume Purged (gal)	Sampling Device	Conductance (uMhos/cm)	Field Temp (Celsius)	Field pH	Odor	Color	Turbidity	ORP	Sample Time	Comments
PARAM#								94	10	400	1	2	3	90		
MW-13C			Blockage in well													
MW-46D			9.77	128.9												
MW-24			2.70	33.6												
MW-23D			5.84	128.0												
MW-22C			5.71	84.0												
MW-2			27.32	69.0												
MW-43D			22.41	158.8												
MW-11D			41.95	140.4												
MW-20C			43.03	114.9												
MW-28D			43.62	195.5												
MW-6			29.10	65.4												
MW-29			30.75	83.05												
MW-1C			43.94	112.2												
MW-10D			44.09	143.7												
MW-3			12.57	42.10												

Monitoring Well Field Sheets

Facility / Project Name: [redacted] Keck Farm

Facility ID#: [redacted]6

Weather Conditions: 25218118

Person(s) Sampling:

Year:

Page _____ of _____

Well Name	Sample Date	Well Condition	Depth to Water (feet)	Total Depth (feet)	Purge Date	Volume Purged (gal)	Sampling Device	Conductance (uMhos/cm)	Field Temp (Celsius)	Field pH	Odor	Color	Turbidity	ORP	Sample Time	Comments
PARAM#								94	10	400	1	2	3	90		
MW-12D			well	obstructed												
MW-19C			36.62	108.4												
MW-30D			41.27	206.9												
MW-27			24.86	85.7												
MW-5			14.59	62.1												
MW-4			19.18	67.5												
MW-37D			31.62	141.1												
MW-41D			33.29	136.1												
MW-44D			37.46	145.8												
MW-40D			36.85	139.5												
MW-34D			33.57	142.6												
MW-42D			34.91	148.3												
MW-35D			34.70	153.3												
MW-45D			33.60	137.7												
MW-36			10.65	47.20												
MW-38D			32.50	144.8												

Monitoring Well Field Sheets

Facility / Project Name: [redacted] Keck Farm

Facility ID#: [redacted] 2521818

Weather Conditions: _____ Year: _____

Person(s) Sampling: _____ Page _____ of _____

Well Name	Sample Date	Well Condition	Depth to Water (feet)	Total Depth (feet)	Purge Date	Volume Purged (gal)	Sampling Device	Conductance (uMhos / cm)	Field Temp (Celsius)	Field pH	Odor	Color	Turbidity	ORP	Sample Time	Comments
PARAM #								94	10	400	1	2	3	90		
MW-32D			0.0	108.0												
MW-33D			0.0	61.0												Artisian well
MW-34D			0.0	93.5												Artisian well
MW-25C			28.01	110.0												Artisian well
MW-26C			24.30	124.2												
MW-21D			37.80	124.4												
MW-8			51.77	72.2												
MW-7			32.45	57.7												
MW-39D			28.63	130.0												
MW-9			57.07	89.7												
MW-15			30.74	79.1												
MW-16C			58.58	140.3												
MW-18D			58.75	178.8												
MW-14D			58.40	175.0												
MW-17			41.45	80.1												

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW 44D **Date** 10/29/18
Total Well Depth 145.8 **Sampling Device** Grundfos pump
Water Level 37.88 **Other Info.**
Well Volume **Pumping Rate** 100ml/s/min
Color/Odor O/O **Pump Run Time**
Sampling Personnel Gary Stenkel

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1230	37.88	11.0	7.34	0.4	823	-103	10.76	
1235	37.98	11.2	7.28	0.2	825	-127	12.36	
1240	37.95	11.4	7.27	0.2	830	-135	8.05	
1245	37.95	11.5	7.26	0.2	856	-139	7.01	
1250	37.96	11.6	7.24	0.2	914	-142	7.17	
1252	37.96	11.6	7.23	0.2	917	-143	8.45	
1254	37.96	11.6	7.23	0.2	918	-147	7.72	
1256	37.95	11.6	7.23	0.2	918	-143	7.35	Sampled
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: 3 VOA vials w/ HCl

Additional Notes: Dup done @ 1256

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

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2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW 43D **Date** 10/29/18
Total Well Depth 158.8 **Sampling Device** Grundfos Pump
Water Level 22.92 **Other Info.**
Well Volume **Pumping Rate** 100 ml/s / min
Color/Odor O/O **Pump Run Time**
Sampling Personnel Gary Starkl

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1350	22.92	11.0	7.56	0.3	796	-70	6.92	
1355	23.04	11.0	7.45	0.2	800	-72	9.88	
1400	23.07	11.0	7.43	0.3	802	-70	8.48	
1405	23.05	11.0	7.43	0.3	803	-74	7.61	
1410	23.05	11.0	7.42	0.3	804	-71	7.41	
1412	23.06	11.1	7.42	0.2	804	-71	6.50	
1414	23.06	11.1	7.42	0.2	804	-71	6.40	
1416	23.05	11.1	7.42	0.2	804	-70	6.48	Sampled
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: 3 VOA Vials w/ HCL

Additional Notes:

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

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2830 Dairy Drive
Madison, WI 53718-6751

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FAX 608 224-2839
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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW 361D **Date** 10/29/18
Total Well Depth 142.6 **Sampling Device** Grundfos
Water Level 33.91 **Other Info.**
Well Volume **Pumping Rate** 100 mls/min
Color/Odor O/O **Pump Run Time**
Sampling Personnel Gary Starkel

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1130	33.91	11.5	7.42	0.6	962	-99	20.26	
1135	34.09	11.5	7.35	0.2	974	-109	16.54	
1140	34.10	11.6	7.35	0.3	978	-114	13.14	
1145	34.10	11.6	7.34	0.2	979	-117	10.61	
1150	34.10	11.7	7.32	0.2	982	-118	10.12	
1152	34.11	11.8	7.33	0.2	980	-119	10.42	
1154	34.10	11.7	7.33	0.2	982	-119	10.22	
1156	34.10	11.7	7.33	0.2	982	-119	10.25	Stabilized
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: 3 VOA Vials w/HCL

Additional Notes:

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-46D **Date** 10/29/18
Well Depth 128.9 **Sampling Device** Grundfos
Water Level 10.07 **Other Info.**
Purge Volume **Pumping Rate** 100 ml/min
Sampling Personnel Charlie Bills
Color/Odor Oro

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
0940	10.37	10.18	7.42	5.85	662	-201.5		
0945	10.37	10.23	7.29	2.67	645	-222.7	3.81	
0950	10.39	10.32	7.24	1.33	639	-222.3		
0955	10.39	10.32	7.23	0.94	639	-224.3		
1000	10.39	10.32	7.22	0.68	639	-216.5		
1005	10.35	10.34	7.21	0.56	640	-208.5		
1010	10.34	10.40	7.20	0.41	643	-216.2		
1015	10.34	10.48	7.20	0.34	645	-214.3		
1020	10.37	10.48	7.20	0.32	647	-215.0	4.90	
1022	10.37	10.46	7.21	0.52	648	-216.7	4.45	
1024	10.35	10.50	7.21	0.69	649	-222.9	4.78	
1026	10.33	10.53	7.22	0.71	650	-220.2	3.79	
1028	10.31	10.65	7.20	0.74	652	-220.1	3.93	Sampled

Type of Samples Collected: 3 VOC

Additional Notes: Meter calibrated @ 0930

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-45D **Date** 10/29/18
Well Depth 137.7 **Sampling Device** Grundfos
Water Level 34.10 **Other Info.**
Purge Volume **Pumping Rate** 100ml/min
Sampling Personnel Charlie Bills
Color/Odor OLO

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1110	34.20	10.49	7.35	0.42	729	-222.7		
1115	34.21	10.61	7.31	0.32	729	-232.3		
1120	34.18	10.69	7.25	0.22	729	-218.3		
1125	34.18	10.89	7.18	0.30	728	-223.8		
1130	34.19	10.95	7.18	0.42	728	-222.0		
1135	34.20	11.17	7.16	0.34	727	-231.8	5.18	
1137	34.16	11.16	7.15	0.39	727	-228.0	4.68	
1139	34.17	11.13	7.15	0.34	728	-221.1	4.72	sampled

Type of Samples Collected: 3 VOC

Additional Notes:

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-40D **Date** 10/29/18
Well Depth 139.55 **Sampling Device** Grundfos
Water Level 37.30 **Other Info.**
Purge Volume **Pumping Rate** 100mL/min
Sampling Personnel Charlie Bills
Color/Odor Brown / none

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1340	37.33	11.29	6.90	0.42	1280	-216.8		
1345	37.35	11.44	6.89	0.33	1283	-216.1	150.4	
1350	37.36	11.63	6.90	0.31	1283	-217.1	198.6	
1352	37.36	12.15	6.89	0.30	1288	-211.8	240.4	
1354	37.35	12.81	6.86	0.30	1290	-210.4	204.2	
1356	37.38	13.67	6.87	0.27	1291	-204.4	206.8	
1358	37.38	13.56	6.87	0.26	1292	-204.5	210.4	Sampled

Type of Samples Collected: 3 VOA Vial

Additional Notes:

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-35D **Date** 10/29/18
Well Depth 153.3 **Sampling Device** Grundfos
Water Level 35.20 **Other Info.**
Purge Volume **Pumping Rate** 100 ml/min
Sampling Personnel Charlie Bills
Color/Odor Brown / none

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
~~1220~~ ~~1225~~	35.55	9.89	7.10	6.79	907	-216.0		
1225	35.53	10.48	7.09	5.20	912	-222.4		
1230	35.53	10.78	7.09	4.98	913	-223.0		
1235	35.27	11.39	7.07	4.53	909	-222.6		
1240	35.24	11.99	7.05	3.89	904	-220.9		
1245	35.20	12.20	7.03	4.05	905	-223.3	95.68	
1250	35.20	12.80	7.02	3.74	902	-213.4		
1255	35.20	13.24	7.01	3.55	904	-210.4	96.61	
1300	35.20	13.12	7.01	3.61	904	-211.6	84.70	
1302	35.20	12.99	7.01	3.69	903	-213.3	84.02	
1304	35.20	12.87	7.01	3.72	902	-215.3	83.08	Sampled

Type of Samples Collected: 3 VOC vials

Additional Notes:

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-1C **Date** 10/18/18
Total Well Depth _____ **Sampling Device** Grundfos
Water Level 43.98 **Other Info.** _____
Well Volume _____ **Pumping Rate** 100 mls/min
Color/Odor N/A **Pump Run Time** _____
Sampling Personnel Gary Starkel

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1515	43.98	12.4	7.08	0.2	1352	-103	16.32	
1520	43.98	13.0	7.14	0.6	1371	-86	13.55	
1525	44.10	12.1	7.12	0.7	1450	-65	11.78	
1530	44.09	13.5	7.13	0.8	1450	-66	12.19	
1535	44.11	13.3	7.11	0.2	1445	-64	8.61	
1540	44.11	13.4	7.11	0.1	1440	-66	6.94	
1542	44.11	13.4	7.11	0.1	1442	-67	6.96	
1544	44.12	13.4	7.11	0.2	1442	-67	6.68	
1546	44.11	13.4	7.11	0.2	1442	-66	6.65	Sampled
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: VOC 3 vials HCl

Additional Notes: _____

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. mw-19c **Date** 10/18/18
Total Well Depth _____ **Sampling Device** Grunfos
Water Level 39.55 **Other Info.** _____
Well Volume _____ **Pumping Rate** _____
Color/Odor N/N **Pump Run Time** _____
Sampling Personnel Gary Stavkel

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1415	39.55	12.3	7.19	0.3	1673	-155	12.92	
1420	42.66	12.3	7.18	0.2	1675	-162	12.92	
1425	42.62	12.3	7.18	0.2	1668	-166	17.00	
1430	42.61	12.4	7.17	0.2	1686	-162	10.86	
1435	42.57	12.4	7.11	0.2	1725	-160	10.19	
1437	42.58	12.4	7.10	0.2	1728	-159	6.51	
1439	42.58	12.4	7.10	0.2	1728	-159	6.96	
1501	42.58	12.4	7.10	0.2	1727	-160	6.06	Sampled
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: VOC 3 vials HCL

Additional Notes: _____

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-4 **Date** 10/18/18
Total Well Depth 19.65 **Sampling Device** Grundfos
Water Level _____ **Other Info.** _____
Well Volume _____ **Pumping Rate** 100ml/min
Color/Odor O/O **Pump Run Time** _____
Sampling Personnel Gary Sterkel

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1250	19.65	12.5	7.27	0.25	1133	204	16.94	
1255	21.64	12.6	7.16	0.2	1135	171	11.67	
1300	21.55	12.6	7.13	0.2	1135	161	7.89	
1305	21.59	12.6	7.10	0.2	1136	155	5.79	
1310	21.64	12.6	7.09	0.26	1137	155	5.15	
1312	21.67	12.5	7.10	0.2	1138	156	5.44	
1314	21.66	12.5	7.10	0.2	1137	156	5.54	
1316	21.67	12.5	7.10	0.2	1137	156	5.55	
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: _____

Additional Notes: _____

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

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and Contractors

2830 Dairy Drive
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608 224-2830
FAX 608 224-2839
www.scsengineers.com

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Groundwater Sampling Log

Project No. 25218118 **Site** Keck farm
Well No. MW-3 **Date** 10/18/18
Total Well Depth _____ **Sampling Device** WW
Water Level 12.31 **Other Info.** _____
Well Volume _____ **Pumping Rate** 100 mls/min
Color/Odor O/O **Pump Run Time** _____
Sampling Personnel Gary Stukel

Time	Water Level	Temp.	pH	DO (mg/L)	Cond. (µs/cm)	ORP	Turbidity	Notes
1140	12.31	10.7	7.68	5.7	759	240	8.88	
1145	14.85	10.6	7.46	6.0	767	260	7.13	
1150	14.62	10.8	7.38	6.1	771	277	8.82	
1155	14.52	10.6	7.35	6.2	771	277	8.47	
1200	14.58	10.6	7.34	6.2	772	280	8.52	
1202	14.52	10.7	7.35	6.2	772	281	8.65	
1204	14.56	10.7	7.34	6.2	772	280	8.67	
1206	14.58	10.7	7.34	6.1	772	281	8.58	Sampled
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10% or 3 readings <0.5 mg/L	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	

Type of Samples Collected: VOC's 3 vials HCl

Additional Notes: _____

Information: Volume in a 2-inch well = 617 ml/ft, Volume in a 4-inch well = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$

Environmental Consultants
and Contractors

2830 Dairy Drive
Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
www.scsengineers.com

SCS ENGINEERS

Groundwater Sampling Log

Project No. 25298118 **Site** Keck Farm
Well No. MW-5 **Date** 10/18/18
Well Depth 62.10 **Sampling Device** Grundfos Redi Flo 2
Water Level 19.58 **Other Info.**
Purge Volume **Pumping Rate** 100mL/min
Sampling Personnel CB
Color/Odor O/O

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1520	20.97	13.0	8.43	1.45	1111	-9.6		
1520	21.02	14.0	8.31	0.63	1110	-16.6		
1525	20.99	14.2	8.26	0.47	1112	-18.5		
1530	20.99	14.4	8.21	0.42	1119	-22.1		
1535	21.00	14.4	8.19	0.39	1122	-27.3		
1540	20.99	14.4	8.17	0.36	1123	-31.7	13.31	
1542	21.00	14.4	8.17	0.36	1124	-32.6	8.85	
1544	21.00	14.4	8.17	0.36	1123	-33.5	6.78	
1546	21.00	14.4	8.16	0.37	1122	-34.8	7.32	sampled
~~1548~~								

Type of Samples Collected: 3 VOAs

Additional Notes:

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

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Madison, WI 53718-6751

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Groundwater Sampling Log

Project No. 25218118 **Site** ~~Total~~ Keck Farm
Well No. MW-26C **Date** 10/18/18
Well Depth _____ **Sampling Device** Rediflo Grundfos pump
Water Level 24.30 **Other Info.** _____
Purge Volume _____ **Pumping Rate** 100 mL/min
Sampling Personnel Charlie Bills
Color/Odor LtBr / 0

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1045	24.40	10.0	8.68	1.32	723	-121.9	75.54	
1050	24.48	10.0	8.93	0.74	765	-137.5		
1055	24.49	10.0	8.94	2.05	774	-111.4		
1100	24.41	10.1	8.95	0.71	777	-119.4		
1105	24.46	10.1	8.94	0.61	780	-122.2		
1110	24.43	10.1	8.94	0.57	784	-123.6	48.56	
1112	24.45	10.1	8.93	0.55	786	-123.3	37.76	
1114	24.46	10.2	8.92	0.55	786	-120.4	34.19	
1116	24.45	10.2	8.93	0.55	787	-118.2	32.87	sampled

Type of Samples Collected: 3 - HCL VOAs

Additional Notes: _____

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

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FAX 608 224-2839
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Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-6 **Date** 10/18/18
Well Depth 65.40 **Sampling Device** Grundfos Redi flo 2
Water Level 29.11 **Other Info.**
Purge Volume **Pumping Rate** 100 mL/min
Sampling Personnel Charlie Bills
Color/Odor Brown/O

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1430	31.11	12.8	8.69	0.45	942	-29.9		
1435	31.20	13.5	8.64	0.35	942	-36.9		
1440	31.27	13.7	8.61	0.32	946	-39.4	179.0	
1442	31.28	13.7	8.60	0.30	947	-39.1	166.4	
1444	31.25	13.8	8.60	0.30	947	-38.1	153.9	
1446	31.24	13.9	8.60	0.30	948	-39.4	134.8	
1448	31.25	14.1	8.60	0.30	947	-38.0	145.7	
1450	31.25	14.1	8.60	0.30	947	-38.3	135.9	sampled

Type of Samples Collected: 3 VOC

Additional Notes:

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

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and Contractors

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Madison, WI 53718-6751

608 224-2830
FAX 608 224-2839
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Groundwater Sampling Log

Project No. 25218118 **Site** Keck farm
Well No. MW-28D **Date** 10/18/18
Well Depth 195.5 **Sampling Device** Grundfos
Water Level 43.62 **Other Info.**
Purge Volume **Pumping Rate** 100 mL/min
Sampling Personnel Charlie B, IIS
Color/Odor Slight tan / O

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1325	45.60	11.4	10.00	0.49	442	-74.9		
1330	46.77	11.7	9.78	0.35	462	-184.6		
1335	45.79	11.8	9.73	0.31	479	-220.0		
1340	45.80	11.8	9.72	0.28	495	-243.7	13.84	
1345	45.81	11.9	9.70	0.25	517	-273.3	12.75	
1350	45.81	12.0	9.78	0.20	525	-284.9		
1355	45.82	12.2	9.79	0.20	527	-281.5	24.17	
1357	45.82	12.2	9.78	0.20	528	-285.3	25.66	
1359	45.82	12.1	9.79	0.20	528	-284.5	21.54	Sampled

Type of Samples Collected: 3 VOC

Additional Notes: Dup done here

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

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FAX 608 224-2839
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SCS ENGINEERS

Groundwater Sampling Log

Project No. 25218118 **Site** Keck Farm
Well No. MW-20C **Date** 10/18/18
Well Depth 114.9 **Sampling Device** Grundfos
Water Level 43.05 **Other Info.**
Purge Volume **Pumping Rate** 100 mL/min
Sampling Personnel Charlie Bills
Color/Odor Brown / 0

Time	Water Level	Temp.	pH	DO (mg/L)	Conductivity (µs/cm)	ORP	Turbidity	Notes
Stability Requirements:		+/- 3%	+/- 0.1 unit	±/- 10%	+/- 3%	+/- 10mV	+/- 10% or 3 readings <5 NTU	
1205	44.92	10.4	9.25	1.50	880	-141.9		
1210	44.50	10.6	9.29	0.82	883	-144.3		
1215	44.57	10.9	9.29	0.64	886	-126.7		
1220	44.40	11.0	9.28	0.55	886	-119.3		
1225	45.45	10.9	9.32	0.48	896	-149.5		
1230	45.62	11.4	9.34	0.34	898	-154.3		
1235	45.71	11.4	9.36	0.34	909	-146.9	61.57	
1237	45.74	11.4	9.36	0.35	918	-139.7	61.34	
1239	45.76	11.4	9.36	0.32	921	-139.6	69.00	sampled

Type of Samples Collected: 3 VOC

Additional Notes:

Information: 2 in = 617 ml/ft, 4 in = 2,470 ml/ft: $Vol_{cyl} = \pi r^2 h$, $Vol_{sphere} = 4/3\pi r^3$

Attachment B

Groundwater Sample Laboratory Reports

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: 500-153531-1
Client Project/Site: Keck Farm - WI - 25218118.00.
Revision: 1

For:
SCS Engineers
N84 W 13540 Leon Rd
Menomonee Falls, Wisconsin 53051

Attn: Mike Prattke

Sandie Fredrick

Authorized for release by:
11/8/2018 9:59:08 AM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Job ID: 500-153531-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-153531-1

Comments
Revised to remove sample PW-16 at client request.

Receipt
The samples were received on 10/20/2018 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions
The following samples were received with headspace in the sample container. This sample container was received with headspace. MW-1C (500-153531-5), MW-5 (500-153531-9), MW-26C (500-153531-10) and MW-28D (500-153531-12).

Sample # 9, and 12 have 1 vial with headspace larger than pea size
Sample # 5 has 2 vials with headspace
Sample #10 has all 3 vials with headspace

GC/MS VOA
The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-9 (500-153531-1), MW-1C (500-153531-5), MW-19C (500-153531-6), MW-3 (500-153531-8) and MW-6 (500-153531-11). Elevated reporting limits (RLs) are provided.

Acetone was detected in the following samples: MW-4 (500-153531-7), MW-5 (500-153531-9), MW-26C (500-153531-10), MW-28D (500-153531-12) and MW-20C (500-153531-13). The method blank associated with these samples were non-detect for Acetone. Acetone is known lab contaminant; therefore all low level detects for this compound should be suspected as lab contamination.

The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH were outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-1C (500-153531-5), MW-19C (500-153531-6) and MW-4 (500-153531-7).

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: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-9 — Lab Sample ID: 500-153531-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11000		100	41	ug/L	100		8260B	Total/NA
Ethylbenzene	33	J	50	18	ug/L	100		8260B	Total/NA
Toluene	90		50	15	ug/L	100		8260B	Total/NA
trans-1,2-Dichloroethene	240		100	35	ug/L	100		8260B	Total/NA
Vinyl chloride	150		100	20	ug/L	100		8260B	Total/NA
Xylenes, Total	48	J	100	22	ug/L	100		8260B	Total/NA
Trichloroethene - DL	100000		5000	1600	ug/L	10000		8260B	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 500-153531-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.56	J	1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.15	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	240		5.0	1.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 500-153531-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.51	J	1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	130		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-1C — Lab Sample ID: 500-153531-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.9	J	5.0	1.5	ug/L	10		8260B	Total/NA
Chloroform	6.5	J	20	3.7	ug/L	10		8260B	Total/NA
Dichlorodifluoromethane	8.0	J	20	6.7	ug/L	10		8260B	Total/NA
1,1-Dichloroethene	8.7	J	10	3.9	ug/L	10		8260B	Total/NA
Ethylbenzene	2.2	J	5.0	1.8	ug/L	10		8260B	Total/NA
Toluene	1.7	J	5.0	1.5	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	330		10	3.5	ug/L	10		8260B	Total/NA
1,1,1-Trichloroethane	5.8	J	10	3.8	ug/L	10		8260B	Total/NA
1,1,2-Trichloroethane	17		10	3.5	ug/L	10		8260B	Total/NA
Vinyl chloride	63		10	2.0	ug/L	10		8260B	Total/NA
Xylenes, Total	3.8	J	10	2.2	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	2500		200	82	ug/L	200		8260B	Total/NA
Trichloroethene - DL	12000		100	33	ug/L	200		8260B	Total/NA

Client Sample ID: MW-19C — Lab Sample ID: 500-153531-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	35	J	100	34	ug/L	50		8260B	Total/NA
1,1-Dichloroethene	120		50	20	ug/L	50		8260B	Total/NA
trans-1,2-Dichloroethene	240		50	17	ug/L	50		8260B	Total/NA
Trichloroethene	4700		25	8.2	ug/L	50		8260B	Total/NA
Vinyl chloride	87		50	10	ug/L	50		8260B	Total/NA
cis-1,2-Dichloroethene - DL	82000		500	200	ug/L	500		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-4 — Lab Sample ID: 500-153531-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	5.0	1.7	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.41	ug/L	1		8260B	Total/NA
Dichlorodifluoromethane	0.82	J	2.0	0.67	ug/L	1		8260B	Total/NA
Trichloroethene	79		0.50	0.16	ug/L	1		8260B	Total/NA
Xylenes, Total	0.29	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 500-153531-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	3600		25	8.2	ug/L	50		8260B	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 500-153531-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	5.0	1.7	ug/L	1		8260B	Total/NA
Benzene	0.42	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chlorobenzene	1.3		1.0	0.39	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.45	J	1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.2		1.0	0.39	ug/L	1		8260B	Total/NA
Isopropylbenzene	6.0		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	58		1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	3.8		1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	5.5		1.0	0.41	ug/L	1		8260B	Total/NA
1,1,2,2-Tetrachloroethane	2.8		1.0	0.40	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.87	J	1.0	0.37	ug/L	1		8260B	Total/NA
Tetrahydrofuran	11		10	1.9	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	12		1.0	0.35	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.5		1.0	0.38	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	33		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	9.3		1.0	0.25	ug/L	1		8260B	Total/NA
Vinyl chloride	7.8		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	890		10	4.1	ug/L	10		8260B	Total/NA
Ethylbenzene - DL	330		5.0	1.8	ug/L	10		8260B	Total/NA
Toluene - DL	1200		5.0	1.5	ug/L	10		8260B	Total/NA
Trichloroethene - DL	1700		5.0	1.6	ug/L	10		8260B	Total/NA
Xylenes, Total - DL	1400		10	2.2	ug/L	10		8260B	Total/NA

Client Sample ID: MW-26C — Lab Sample ID: 500-153531-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8		5.0	1.7	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.0		1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	0.42	J	1.0	0.34	ug/L	1		8260B	Total/NA
Toluene	0.25	J	0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.84		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 500-153531-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	29		20	7.7	ug/L	20		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-6 (Continued) — Lab Sample ID: 500-153531-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	76		20	8.2	ug/L	20		8260B	Total/NA
Ethylbenzene	250		10	3.7	ug/L	20		8260B	Total/NA
Naphthalene	20		20	6.7	ug/L	20		8260B	Total/NA
Toluene	1000		10	3.0	ug/L	20		8260B	Total/NA
1,2,4-Trimethylbenzene	15	J	20	7.2	ug/L	20		8260B	Total/NA
Vinyl chloride	11	J	20	4.1	ug/L	20		8260B	Total/NA
Xylenes, Total	1000		20	4.4	ug/L	20		8260B	Total/NA
Trichloroethene - DL	8600		100	33	ug/L	200		8260B	Total/NA

Client Sample ID: MW-28D — Lab Sample ID: 500-153531-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.6	J	5.0	1.7	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.77	J	1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.28	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	4.3		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	190		0.50	0.16	ug/L	1		8260B	Total/NA
Xylenes, Total	0.93	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-20C — Lab Sample ID: 500-153531-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7		5.0	1.7	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.7		1.0	0.41	ug/L	1		8260B	Total/NA
Ethylbenzene	1.8		0.50	0.18	ug/L	1		8260B	Total/NA
Toluene	6.1		0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.70	J	1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	200	F1	0.50	0.16	ug/L	1		8260B	Total/NA
Xylenes, Total	8.0		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: TB — Lab Sample ID: 500-153531-14

No Detections.

Client Sample ID: MW-28D Dup — Lab Sample ID: 500-153531-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.1		1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.18	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	5.2		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene - DL	150		5.0	1.6	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

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: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153531-1	MW-9	Ground Water	10/18/18 10:20	10/20/18 10:20
500-153531-2	MW-8	Ground Water	10/18/18 10:50	10/20/18 10:20
500-153531-3	MW-7	Ground Water	10/18/18 11:00	10/20/18 10:20
500-153531-5	MW-1C	Ground Water	10/18/18 15:46	10/20/18 10:20
500-153531-6	MW-19C	Ground Water	10/18/18 15:01	10/20/18 10:20
500-153531-7	MW-4	Ground Water	10/18/18 13:16	10/20/18 10:20
500-153531-8	MW-3	Ground Water	10/18/18 12:06	10/20/18 10:20
500-153531-9	MW-5	Ground Water	10/18/18 15:46	10/20/18 10:20
500-153531-10	MW-26C	Ground Water	10/18/18 11:16	10/20/18 10:20
500-153531-11	MW-6	Ground Water	10/18/18 14:50	10/20/18 10:20
500-153531-12	MW-28D	Ground Water	10/18/18 13:59	10/20/18 10:20
500-153531-13	MW-20C	Ground Water	10/18/18 12:39	10/20/18 10:20
500-153531-14	TB	Water	10/18/18 00:00	10/20/18 10:20
500-153531-15	MW-28D Dup	Ground Water	10/18/18 13:59	10/20/18 10:20

Client Sample ID: MW-9
Date Collected: 10/18/18 10:20
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<170		500	170	ug/L			10/31/18 21:24	100
Benzene	<15		50	15	ug/L			10/31/18 21:24	100
Bromobenzene	<36		100	36	ug/L			10/31/18 21:24	100
Bromochloromethane	<43		100	43	ug/L			10/31/18 21:24	100
Bromodichloromethane	<37		100	37	ug/L			10/31/18 21:24	100
Bromoform	<48		100	48	ug/L			10/31/18 21:24	100
Bromomethane	<80		200	80	ug/L			10/31/18 21:24	100
2-Butanone (MEK)	<210		500	210	ug/L			10/31/18 21:24	100
Carbon tetrachloride	<38		100	38	ug/L			10/31/18 21:24	100
Chlorobenzene	<39		100	39	ug/L			10/31/18 21:24	100
Chloroethane	<51		100	51	ug/L			10/31/18 21:24	100
Chloroform	<37		200	37	ug/L			10/31/18 21:24	100
Chloromethane	<32		100	32	ug/L			10/31/18 21:24	100
2-Chlorotoluene	<31		100	31	ug/L			10/31/18 21:24	100
4-Chlorotoluene	<35		100	35	ug/L			10/31/18 21:24	100
cis-1,2-Dichloroethene	**11000**		100	41	ug/L			10/31/18 21:24	100
cis-1,3-Dichloropropene	<42		100	42	ug/L			10/31/18 21:24	100
Dibromochloromethane	<49		100	49	ug/L			10/31/18 21:24	100
1,2-Dibromo-3-Chloropropane	<200		500	200	ug/L			10/31/18 21:24	100
1,2-Dibromoethane	<39		100	39	ug/L			10/31/18 21:24	100
Dibromomethane	<27		100	27	ug/L			10/31/18 21:24	100
1,2-Dichlorobenzene	<33		100	33	ug/L			10/31/18 21:24	100
1,3-Dichlorobenzene	<40		100	40	ug/L			10/31/18 21:24	100
1,4-Dichlorobenzene	<36		100	36	ug/L			10/31/18 21:24	100
Dichlorodifluoromethane	<67		200	67	ug/L			10/31/18 21:24	100
1,1-Dichloroethane	<41		100	41	ug/L			10/31/18 21:24	100
1,2-Dichloroethane	<39		100	39	ug/L			10/31/18 21:24	100
1,1-Dichloroethene	<39		100	39	ug/L			10/31/18 21:24	100
1,2-Dichloropropane	<43		100	43	ug/L			10/31/18 21:24	100
1,3-Dichloropropane	<36		100	36	ug/L			10/31/18 21:24	100
2,2-Dichloropropane	<44		100	44	ug/L			10/31/18 21:24	100
1,1-Dichloropropene	<30		100	30	ug/L			10/31/18 21:24	100
Ethylbenzene	**33**	**J**	50	18	ug/L			10/31/18 21:24	100
Hexachlorobutadiene	<45		100	45	ug/L			10/31/18 21:24	100
2-Hexanone	<160		500	160	ug/L			10/31/18 21:24	100
Isopropylbenzene	<39		100	39	ug/L			10/31/18 21:24	100
Isopropyl ether	<28		100	28	ug/L			10/31/18 21:24	100
Methylene Chloride	<160		500	160	ug/L			10/31/18 21:24	100
4-Methyl-2-pentanone (MIBK)	<220		500	220	ug/L			10/31/18 21:24	100
Methyl tert-butyl ether	<39		100	39	ug/L			10/31/18 21:24	100
Naphthalene	<34		100	34	ug/L			10/31/18 21:24	100
n-Butylbenzene	<39		100	39	ug/L			10/31/18 21:24	100
N-Propylbenzene	<41		100	41	ug/L			10/31/18 21:24	100
p-Isopropyltoluene	<36		100	36	ug/L			10/31/18 21:24	100
sec-Butylbenzene	<40		100	40	ug/L			10/31/18 21:24	100
Styrene	<39		100	39	ug/L			10/31/18 21:24	100
tert-Butylbenzene	<40		100	40	ug/L			10/31/18 21:24	100
1,1,1,2-Tetrachloroethane	<46		100	46	ug/L			10/31/18 21:24	100
1,1,2,2-Tetrachloroethane	<40		100	40	ug/L			10/31/18 21:24	100

Client Sample ID: MW-9

Date Collected: 10/18/18 10:20
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<37		100	37	ug/L			10/31/18 21:24	100
Tetrahydrofuran	<190		1000	190	ug/L			10/31/18 21:24	100
Toluene	**90**		50	15	ug/L			10/31/18 21:24	100
trans-1,2-Dichloroethene	**240**		100	35	ug/L			10/31/18 21:24	100
trans-1,3-Dichloropropene	<36		100	36	ug/L			10/31/18 21:24	100
1,2,3-Trichlorobenzene	<46		100	46	ug/L			10/31/18 21:24	100
1,2,4-Trichlorobenzene	<34		100	34	ug/L			10/31/18 21:24	100
1,1,1-Trichloroethane	<38		100	38	ug/L			10/31/18 21:24	100
1,1,2-Trichloroethane	<35		100	35	ug/L			10/31/18 21:24	100
Trichlorofluoromethane	<43		100	43	ug/L			10/31/18 21:24	100
1,2,3-Trichloropropane	<41		100	41	ug/L			10/31/18 21:24	100
1,2,4-Trimethylbenzene	<36		100	36	ug/L			10/31/18 21:24	100
1,3,5-Trimethylbenzene	<25		100	25	ug/L			10/31/18 21:24	100
Vinyl chloride	**150**		100	20	ug/L			10/31/18 21:24	100
Xylenes, Total	**48**	**J**	100	22	ug/L			10/31/18 21:24	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*10/31/18 21:24*	*100*
Dibromofluoromethane	*95*		*75 - 120*		*10/31/18 21:24*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*10/31/18 21:24*	*100*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/31/18 21:24*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**100000**		5000	1600	ug/L			11/01/18 11:28	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*11/01/18 11:28*	*10000*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 11:28*	*10000*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*11/01/18 11:28*	*10000*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 11:28*	*10000*

Client Sample ID: MW-8

Date Collected: 10/18/18 10:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 21:53	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 21:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 21:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 21:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 21:53	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 21:53	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 21:53	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 21:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 21:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 21:53	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 21:53	1

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-8
Date Collected: 10/18/18 10:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 21:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 21:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 21:53	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.41	ug/L			10/31/18 21:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 21:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 21:53	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 21:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 21:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 21:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 21:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 21:53	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 21:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 21:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 21:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 21:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 21:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 21:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 21:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 21:53	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 21:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 21:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 21:53	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 21:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 21:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 21:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 21:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 21:53	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 21:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 21:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 21:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 21:53	1
Tetrachloroethene	**0.56**	**J**	1.0	0.37	ug/L			10/31/18 21:53	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 21:53	1
Toluene	**0.15**	**J**	0.50	0.15	ug/L			10/31/18 21:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 21:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 21:53	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 21:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 21:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 21:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 21:53	1
Trichloroethene	**240**		5.0	1.6	ug/L			11/01/18 11:57	10
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 21:53	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 21:53	1

Client Sample ID: MW-8

Date Collected: 10/18/18 10:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 21:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 21:53	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 21:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*10/31/18 21:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/01/18 11:57*	*10*
Dibromofluoromethane	*97*		*75 - 120*		*10/31/18 21:53*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/01/18 11:57*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*10/31/18 21:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 11:57*	*10*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/31/18 21:53*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 11:57*	*10*

Client Sample ID: MW-7

Date Collected: 10/18/18 11:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 22:23	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 22:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 22:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 22:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 22:23	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 22:23	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 22:23	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 22:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 22:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 22:23	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 22:23	1
Chloromethane	<0.32	F2	1.0	0.32	ug/L			10/31/18 22:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 22:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 22:23	1
cis-1,2-Dichloroethene	**0.51**	**J**	1.0	0.41	ug/L			10/31/18 22:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 22:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 22:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 22:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 22:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 22:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 22:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 22:23	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 22:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 22:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 22:23	1

Client Sample ID: MW-7

Date Collected: 10/18/18 11:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 22:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 22:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 22:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 22:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 22:23	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 22:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 22:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 22:23	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 22:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 22:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 22:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 22:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 22:23	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 22:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 22:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 22:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 22:23	1
Tetrachloroethene	**1.1**		1.0	0.37	ug/L			10/31/18 22:23	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 22:23	1
Toluene	<0.15		0.50	0.15	ug/L			10/31/18 22:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 22:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 22:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 22:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 22:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 22:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 22:23	1
Trichloroethene	**130**		0.50	0.16	ug/L			10/31/18 22:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 22:23	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 22:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 22:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 22:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 22:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*10/31/18 22:23*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*10/31/18 22:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*10/31/18 22:23*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/31/18 22:23*	*1*

Client Sample ID: MW-1C

Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		50	17	ug/L			10/31/18 13:50	10

Client Sample ID: MW-1C
Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.9**	**J**	5.0	1.5	ug/L			10/31/18 13:50	10
Bromobenzene	<3.6		10	3.6	ug/L			10/31/18 13:50	10
Bromochloromethane	<4.3		10	4.3	ug/L			10/31/18 13:50	10
Bromodichloromethane	<3.7		10	3.7	ug/L			10/31/18 13:50	10
Bromoform	<4.8		10	4.8	ug/L			10/31/18 13:50	10
Bromomethane	<8.0		20	8.0	ug/L			10/31/18 13:50	10
2-Butanone (MEK)	<21		50	21	ug/L			10/31/18 13:50	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			10/31/18 13:50	10
Chlorobenzene	<3.9		10	3.9	ug/L			10/31/18 13:50	10
Chloroethane	<5.1		10	5.1	ug/L			10/31/18 13:50	10
Chloroform	**6.5**	**J**	20	3.7	ug/L			10/31/18 13:50	10
Chloromethane	<3.2		10	3.2	ug/L			10/31/18 13:50	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			10/31/18 13:50	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			10/31/18 13:50	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			10/31/18 13:50	10
Dibromochloromethane	<4.9		10	4.9	ug/L			10/31/18 13:50	10
1,2-Dibromo-3-Chloropropane	<20		50	20	ug/L			10/31/18 13:50	10
1,2-Dibromoethane	<3.9		10	3.9	ug/L			10/31/18 13:50	10
Dibromomethane	<2.7		10	2.7	ug/L			10/31/18 13:50	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			10/31/18 13:50	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			10/31/18 13:50	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			10/31/18 13:50	10
Dichlorodifluoromethane	**8.0**	**J**	20	6.7	ug/L			10/31/18 13:50	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			10/31/18 13:50	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			10/31/18 13:50	10
1,1-Dichloroethene	**8.7**	**J**	10	3.9	ug/L			10/31/18 13:50	10
1,2-Dichloropropane	<4.3		10	4.3	ug/L			10/31/18 13:50	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			10/31/18 13:50	10
2,2-Dichloropropane	<4.4		10	4.4	ug/L			10/31/18 13:50	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			10/31/18 13:50	10
Ethylbenzene	**2.2**	**J**	5.0	1.8	ug/L			10/31/18 13:50	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			10/31/18 13:50	10
2-Hexanone	<16		50	16	ug/L			10/31/18 13:50	10
Isopropylbenzene	<3.9		10	3.9	ug/L			10/31/18 13:50	10
Isopropyl ether	<2.8		10	2.8	ug/L			10/31/18 13:50	10
Methylene Chloride	<16		50	16	ug/L			10/31/18 13:50	10
4-Methyl-2-pentanone (MIBK)	<22		50	22	ug/L			10/31/18 13:50	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			10/31/18 13:50	10
Naphthalene	<3.4		10	3.4	ug/L			10/31/18 13:50	10
n-Butylbenzene	<3.9		10	3.9	ug/L			10/31/18 13:50	10
N-Propylbenzene	<4.1		10	4.1	ug/L			10/31/18 13:50	10
p-Isopropyltoluene	<3.6		10	3.6	ug/L			10/31/18 13:50	10
sec-Butylbenzene	<4.0		10	4.0	ug/L			10/31/18 13:50	10
Styrene	<3.9		10	3.9	ug/L			10/31/18 13:50	10
tert-Butylbenzene	<4.0		10	4.0	ug/L			10/31/18 13:50	10
1,1,1,2-Tetrachloroethane	<4.6		10	4.6	ug/L			10/31/18 13:50	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			10/31/18 13:50	10
Tetrachloroethene	<3.7		10	3.7	ug/L			10/31/18 13:50	10
Tetrahydrofuran	<19		100	19	ug/L			10/31/18 13:50	10

Client Sample ID: MW-1C

Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**1.7**	**J**	5.0	1.5	ug/L			10/31/18 13:50	10
trans-1,2-Dichloroethene	**330**		10	3.5	ug/L			10/31/18 13:50	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			10/31/18 13:50	10
1,2,3-Trichlorobenzene	<4.6		10	4.6	ug/L			10/31/18 13:50	10
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			10/31/18 13:50	10
1,1,1-Trichloroethane	**5.8**	**J**	10	3.8	ug/L			10/31/18 13:50	10
1,1,2-Trichloroethane	**17**		10	3.5	ug/L			10/31/18 13:50	10
Trichlorofluoromethane	<4.3		10	4.3	ug/L			10/31/18 13:50	10
1,2,3-Trichloropropane	<4.1		10	4.1	ug/L			10/31/18 13:50	10
1,2,4-Trimethylbenzene	<3.6		10	3.6	ug/L			10/31/18 13:50	10
1,3,5-Trimethylbenzene	<2.5		10	2.5	ug/L			10/31/18 13:50	10
Vinyl chloride	**63**		10	2.0	ug/L			10/31/18 13:50	10
Xylenes, Total	**3.8**	**J**	10	2.2	ug/L			10/31/18 13:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*10/31/18 13:50*	*10*
Dibromofluoromethane	*88*		*75 - 120*		*10/31/18 13:50*	*10*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*10/31/18 13:50*	*10*
Toluene-d8 (Surr)	*101*		*75 - 120*		*10/31/18 13:50*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2500**		200	82	ug/L			11/01/18 13:56	200
Trichloroethene	**12000**		100	33	ug/L			11/01/18 13:56	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 13:56*	*200*
Dibromofluoromethane	*93*		*75 - 120*		*11/01/18 13:56*	*200*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 13:56*	*200*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 13:56*	*200*

Client Sample ID: MW-19C

Date Collected: 10/18/18 15:01
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<87		250	87	ug/L			10/31/18 14:40	50
Benzene	<7.3		25	7.3	ug/L			10/31/18 14:40	50
Bromobenzene	<18		50	18	ug/L			10/31/18 14:40	50
Bromochloromethane	<21		50	21	ug/L			10/31/18 14:40	50
Bromodichloromethane	<19		50	19	ug/L			10/31/18 14:40	50
Bromoform	<24		50	24	ug/L			10/31/18 14:40	50
Bromomethane	<40		100	40	ug/L			10/31/18 14:40	50
2-Butanone (MEK)	<110		250	110	ug/L			10/31/18 14:40	50
Carbon tetrachloride	<19		50	19	ug/L			10/31/18 14:40	50
Chlorobenzene	<19		50	19	ug/L			10/31/18 14:40	50
Chloroethane	<25		50	25	ug/L			10/31/18 14:40	50
Chloroform	<19		100	19	ug/L			10/31/18 14:40	50
Chloromethane	<16		50	16	ug/L			10/31/18 14:40	50

Client Sample ID: MW-19C
Date Collected: 10/18/18 15:01
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<16		50	16	ug/L			10/31/18 14:40	50
4-Chlorotoluene	<17		50	17	ug/L			10/31/18 14:40	50
cis-1,3-Dichloropropene	<21		50	21	ug/L			10/31/18 14:40	50
Dibromochloromethane	<24		50	24	ug/L			10/31/18 14:40	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/L			10/31/18 14:40	50
1,2-Dibromoethane	<19		50	19	ug/L			10/31/18 14:40	50
Dibromomethane	<14		50	14	ug/L			10/31/18 14:40	50
1,2-Dichlorobenzene	<17		50	17	ug/L			10/31/18 14:40	50
1,3-Dichlorobenzene	<20		50	20	ug/L			10/31/18 14:40	50
1,4-Dichlorobenzene	<18		50	18	ug/L			10/31/18 14:40	50
Dichlorodifluoromethane	**35**	**J**	100	34	ug/L			10/31/18 14:40	50
1,1-Dichloroethane	<21		50	21	ug/L			10/31/18 14:40	50
1,2-Dichloroethane	<20		50	20	ug/L			10/31/18 14:40	50
1,1-Dichloroethene	**120**		50	20	ug/L			10/31/18 14:40	50
1,2-Dichloropropane	<21		50	21	ug/L			10/31/18 14:40	50
1,3-Dichloropropane	<18		50	18	ug/L			10/31/18 14:40	50
2,2-Dichloropropane	<22		50	22	ug/L			10/31/18 14:40	50
1,1-Dichloropropene	<15		50	15	ug/L			10/31/18 14:40	50
Ethylbenzene	<9.2		25	9.2	ug/L			10/31/18 14:40	50
Hexachlorobutadiene	<22		50	22	ug/L			10/31/18 14:40	50
2-Hexanone	<78		250	78	ug/L			10/31/18 14:40	50
Isopropylbenzene	<19		50	19	ug/L			10/31/18 14:40	50
Isopropyl ether	<14		50	14	ug/L			10/31/18 14:40	50
Methylene Chloride	<82		250	82	ug/L			10/31/18 14:40	50
4-Methyl-2-pentanone (MIBK)	<110		250	110	ug/L			10/31/18 14:40	50
Methyl tert-butyl ether	<20		50	20	ug/L			10/31/18 14:40	50
Naphthalene	<17		50	17	ug/L			10/31/18 14:40	50
n-Butylbenzene	<19		50	19	ug/L			10/31/18 14:40	50
N-Propylbenzene	<21		50	21	ug/L			10/31/18 14:40	50
p-Isopropyltoluene	<18		50	18	ug/L			10/31/18 14:40	50
sec-Butylbenzene	<20		50	20	ug/L			10/31/18 14:40	50
Styrene	<19		50	19	ug/L			10/31/18 14:40	50
tert-Butylbenzene	<20		50	20	ug/L			10/31/18 14:40	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/L			10/31/18 14:40	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/L			10/31/18 14:40	50
Tetrachloroethene	<19		50	19	ug/L			10/31/18 14:40	50
Tetrahydrofuran	<94		500	94	ug/L			10/31/18 14:40	50
Toluene	<7.6		25	7.6	ug/L			10/31/18 14:40	50
trans-1,2-Dichloroethene	**240**		50	17	ug/L			10/31/18 14:40	50
trans-1,3-Dichloropropene	<18		50	18	ug/L			10/31/18 14:40	50
1,2,3-Trichlorobenzene	<23		50	23	ug/L			10/31/18 14:40	50
1,2,4-Trichlorobenzene	<17		50	17	ug/L			10/31/18 14:40	50
1,1,1-Trichloroethane	<19		50	19	ug/L			10/31/18 14:40	50
1,1,2-Trichloroethane	<18		50	18	ug/L			10/31/18 14:40	50
Trichloroethene	**4700**		25	8.2	ug/L			10/31/18 14:40	50
Trichlorofluoromethane	<21		50	21	ug/L			10/31/18 14:40	50
1,2,3-Trichloropropane	<21		50	21	ug/L			10/31/18 14:40	50
1,2,4-Trimethylbenzene	<18		50	18	ug/L			10/31/18 14:40	50
1,3,5-Trimethylbenzene	<13		50	13	ug/L			10/31/18 14:40	50

Client Sample ID: MW-19C

Date Collected: 10/18/18 15:01
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**87**		50	10	ug/L			10/31/18 14:40	50
Xylenes, Total	<11		50	11	ug/L			10/31/18 14:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*10/31/18 14:40*	*50*
Dibromofluoromethane	*90*		*75 - 120*		*10/31/18 14:40*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*10/31/18 14:40*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/31/18 14:40*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**82000**		500	200	ug/L			10/31/18 15:05	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*72 - 124*		*10/31/18 15:05*	*500*
Dibromofluoromethane	*89*		*75 - 120*		*10/31/18 15:05*	*500*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*10/31/18 15:05*	*500*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/31/18 15:05*	*500*

Client Sample ID: MW-4

Date Collected: 10/18/18 13:16
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.1**	**J**	5.0	1.7	ug/L			10/31/18 15:30	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 15:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 15:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 15:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 15:30	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 15:30	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 15:30	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 15:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 15:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 15:30	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 15:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 15:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 15:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 15:30	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.41	ug/L			10/31/18 15:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 15:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 15:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 15:30	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 15:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 15:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 15:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 15:30	1
Dichlorodifluoromethane	**0.82**	**J**	2.0	0.67	ug/L			10/31/18 15:30	1

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-4
Date Collected: 10/18/18 13:16
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 15:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 15:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 15:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 15:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 15:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 15:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 15:30	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 15:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 15:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 15:30	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 15:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 15:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 15:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 15:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 15:30	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 15:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 15:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 15:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 15:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 15:30	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 15:30	1
Toluene	<0.15		0.50	0.15	ug/L			10/31/18 15:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 15:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 15:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 15:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 15:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 15:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 15:30	1
Trichloroethene	**79**		0.50	0.16	ug/L			10/31/18 15:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 15:30	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 15:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 15:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 15:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 15:30	1
Xylenes, Total	**0.29**	**J**	1.0	0.22	ug/L			10/31/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*72 - 124*		*10/31/18 15:30*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/31/18 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*10/31/18 15:30*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/31/18 15:30*	*1*

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-3
Date Collected: 10/18/18 12:06
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<8.7		25	8.7	ug/L			10/31/18 15:56	5
Benzene	<0.73		2.5	0.73	ug/L			10/31/18 15:56	5
Bromobenzene	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
Bromoform	<2.4		5.0	2.4	ug/L			10/31/18 15:56	5
Bromomethane	<4.0		10	4.0	ug/L			10/31/18 15:56	5
2-Butanone (MEK)	<11		25	11	ug/L			10/31/18 15:56	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
Chloroethane	<2.5		5.0	2.5	ug/L			10/31/18 15:56	5
Chloroform	<1.9		10	1.9	ug/L			10/31/18 15:56	5
Chloromethane	<1.6		5.0	1.6	ug/L			10/31/18 15:56	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			10/31/18 15:56	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			10/31/18 15:56	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			10/31/18 15:56	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			10/31/18 15:56	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
Dibromomethane	<1.4		5.0	1.4	ug/L			10/31/18 15:56	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			10/31/18 15:56	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
Dichlorodifluoromethane	<3.4		10	3.4	ug/L			10/31/18 15:56	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			10/31/18 15:56	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			10/31/18 15:56	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			10/31/18 15:56	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			10/31/18 15:56	5
2-Hexanone	<7.8		25	7.8	ug/L			10/31/18 15:56	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			10/31/18 15:56	5
Methylene Chloride	<8.2		25	8.2	ug/L			10/31/18 15:56	5
4-Methyl-2-pentanone (MIBK)	<11		25	11	ug/L			10/31/18 15:56	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
Naphthalene	<1.7		5.0	1.7	ug/L			10/31/18 15:56	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
Styrene	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			10/31/18 15:56	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/31/18 15:56	5

Client Sample ID: MW-3

Date Collected: 10/18/18 12:06
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
Tetrahydrofuran	<9.4		50	9.4	ug/L			10/31/18 15:56	5
Toluene	<0.76		2.5	0.76	ug/L			10/31/18 15:56	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/31/18 15:56	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			10/31/18 15:56	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			10/31/18 15:56	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			10/31/18 15:56	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			10/31/18 15:56	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			10/31/18 15:56	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			10/31/18 15:56	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			10/31/18 15:56	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			10/31/18 15:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*72 - 124*		*10/31/18 15:56*	*5*
Dibromofluoromethane	*84*		*75 - 120*		*10/31/18 15:56*	*5*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*10/31/18 15:56*	*5*
Toluene-d8 (Surr)	*102*		*75 - 120*		*10/31/18 15:56*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**3600**		25	8.2	ug/L			10/31/18 16:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*10/31/18 16:21*	*50*
Dibromofluoromethane	*87*		*75 - 120*		*10/31/18 16:21*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*10/31/18 16:21*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*		*10/31/18 16:21*	*50*

Client Sample ID: MW-5

Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-9

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.8**	**J**	5.0	1.7	ug/L			10/31/18 16:46	1
Benzene	**0.42**	**J**	0.50	0.15	ug/L			10/31/18 16:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 16:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 16:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 16:46	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 16:46	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 16:46	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 16:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 16:46	1
Chlorobenzene	**1.3**		1.0	0.39	ug/L			10/31/18 16:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 16:46	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 16:46	1

Client Sample ID: MW-5
Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-9
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 16:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 16:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 16:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 16:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 16:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 16:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 16:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 16:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 16:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 16:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 16:46	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 16:46	1
1,1-Dichloroethane	**0.45**	**J**	1.0	0.41	ug/L			10/31/18 16:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 16:46	1
1,1-Dichloroethene	**1.2**		1.0	0.39	ug/L			10/31/18 16:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 16:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 16:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 16:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 16:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 16:46	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 16:46	1
Isopropylbenzene	**6.0**		1.0	0.39	ug/L			10/31/18 16:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 16:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 16:46	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 16:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 16:46	1
Naphthalene	**58**		1.0	0.34	ug/L			10/31/18 16:46	1
n-Butylbenzene	**3.8**		1.0	0.39	ug/L			10/31/18 16:46	1
N-Propylbenzene	**5.5**		1.0	0.41	ug/L			10/31/18 16:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 16:46	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 16:46	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 16:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 16:46	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 16:46	1
1,1,2,2-Tetrachloroethane	**2.8**		1.0	0.40	ug/L			10/31/18 16:46	1
Tetrachloroethene	**0.87**	**J**	1.0	0.37	ug/L			10/31/18 16:46	1
Tetrahydrofuran	**11**		10	1.9	ug/L			10/31/18 16:46	1
trans-1,2-Dichloroethene	**12**		1.0	0.35	ug/L			10/31/18 16:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 16:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 16:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 16:46	1
1,1,1-Trichloroethane	**2.5**		1.0	0.38	ug/L			10/31/18 16:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 16:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 16:46	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 16:46	1
1,2,4-Trimethylbenzene	**33**		1.0	0.36	ug/L			10/31/18 16:46	1
1,3,5-Trimethylbenzene	**9.3**		1.0	0.25	ug/L			10/31/18 16:46	1
Vinyl chloride	**7.8**		1.0	0.20	ug/L			10/31/18 16:46	1

Client Sample ID: MW-5

Lab Sample ID: 500-153531-9

Date Collected: 10/18/18 15:46

Matrix: Ground Water

Date Received: 10/20/18 10:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*10/31/18 16:46*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/31/18 16:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*10/31/18 16:46*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*10/31/18 16:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**890**		10	4.1	ug/L			10/31/18 17:11	10
Ethylbenzene	**330**		5.0	1.8	ug/L			10/31/18 17:11	10
Toluene	**1200**		5.0	1.5	ug/L			10/31/18 17:11	10
Trichloroethene	**1700**		5.0	1.6	ug/L			10/31/18 17:11	10
Xylenes, Total	**1400**		10	2.2	ug/L			10/31/18 17:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*10/31/18 17:11*	*10*
Dibromofluoromethane	*86*		*75 - 120*		*10/31/18 17:11*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*10/31/18 17:11*	*10*
Toluene-d8 (Surr)	*102*		*75 - 120*		*10/31/18 17:11*	*10*

Client Sample ID: MW-26C

Lab Sample ID: 500-153531-10

Date Collected: 10/18/18 11:16

Matrix: Ground Water

Date Received: 10/20/18 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.8**		5.0	1.7	ug/L			10/31/18 17:36	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 17:36	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 17:36	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 17:36	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 17:36	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 17:36	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 17:36	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 17:36	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 17:36	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 17:36	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 17:36	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 17:36	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 17:36	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 17:36	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/31/18 17:36	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 17:36	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 17:36	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 17:36	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 17:36	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 17:36	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 17:36	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 17:36	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 17:36	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 17:36	1

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-26C
Date Collected: 10/18/18 11:16
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-10
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 17:36	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 17:36	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 17:36	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 17:36	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 17:36	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 17:36	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 17:36	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 17:36	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 17:36	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 17:36	1
Methyl tert-butyl ether	**1.0**		1.0	0.39	ug/L			10/31/18 17:36	1
Naphthalene	**0.42**	**J**	1.0	0.34	ug/L			10/31/18 17:36	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 17:36	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 17:36	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 17:36	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 17:36	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 17:36	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 17:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 17:36	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 17:36	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 17:36	1
Toluene	**0.25**	**J**	0.50	0.15	ug/L			10/31/18 17:36	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 17:36	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 17:36	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 17:36	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 17:36	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 17:36	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 17:36	1
Trichloroethene	**0.84**		0.50	0.16	ug/L			10/31/18 17:36	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 17:36	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 17:36	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 17:36	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 17:36	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 17:36	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*10/31/18 17:36*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/31/18 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*10/31/18 17:36*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/31/18 17:36*	*1*

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-6
Date Collected: 10/18/18 14:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-11
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<35		100	35	ug/L			11/01/18 14:25	20
Benzene	<2.9		10	2.9	ug/L			11/01/18 14:25	20
Bromobenzene	<7.1		20	7.1	ug/L			11/01/18 14:25	20
Bromochloromethane	<8.6		20	8.6	ug/L			11/01/18 14:25	20
Bromodichloromethane	<7.4		20	7.4	ug/L			11/01/18 14:25	20
Bromoform	<9.7		20	9.7	ug/L			11/01/18 14:25	20
Bromomethane	<16		40	16	ug/L			11/01/18 14:25	20
2-Butanone (MEK)	<42		100	42	ug/L			11/01/18 14:25	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			11/01/18 14:25	20
Chlorobenzene	**29**		20	7.7	ug/L			11/01/18 14:25	20
Chloroethane	<10		20	10	ug/L			11/01/18 14:25	20
Chloroform	<7.4		40	7.4	ug/L			11/01/18 14:25	20
Chloromethane	<6.4		20	6.4	ug/L			11/01/18 14:25	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			11/01/18 14:25	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			11/01/18 14:25	20
cis-1,2-Dichloroethene	**76**		20	8.2	ug/L			11/01/18 14:25	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			11/01/18 14:25	20
Dibromochloromethane	<9.8		20	9.8	ug/L			11/01/18 14:25	20
1,2-Dibromo-3-Chloropropane	<40		100	40	ug/L			11/01/18 14:25	20
1,2-Dibromoethane	<7.7		20	7.7	ug/L			11/01/18 14:25	20
Dibromomethane	<5.4		20	5.4	ug/L			11/01/18 14:25	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			11/01/18 14:25	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			11/01/18 14:25	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			11/01/18 14:25	20
Dichlorodifluoromethane	<13		40	13	ug/L			11/01/18 14:25	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			11/01/18 14:25	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			11/01/18 14:25	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			11/01/18 14:25	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			11/01/18 14:25	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			11/01/18 14:25	20
2,2-Dichloropropane	<8.9		20	8.9	ug/L			11/01/18 14:25	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			11/01/18 14:25	20
Ethylbenzene	**250**		10	3.7	ug/L			11/01/18 14:25	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			11/01/18 14:25	20
2-Hexanone	<31		100	31	ug/L			11/01/18 14:25	20
Isopropylbenzene	<7.7		20	7.7	ug/L			11/01/18 14:25	20
Isopropyl ether	<5.5		20	5.5	ug/L			11/01/18 14:25	20
Methylene Chloride	<33		100	33	ug/L			11/01/18 14:25	20
4-Methyl-2-pentanone (MIBK)	<43		100	43	ug/L			11/01/18 14:25	20
Methyl tert-butyl ether	<7.9		20	7.9	ug/L			11/01/18 14:25	20
Naphthalene	**20**		20	6.7	ug/L			11/01/18 14:25	20
n-Butylbenzene	<7.8		20	7.8	ug/L			11/01/18 14:25	20
N-Propylbenzene	<8.3		20	8.3	ug/L			11/01/18 14:25	20
p-Isopropyltoluene	<7.2		20	7.2	ug/L			11/01/18 14:25	20
sec-Butylbenzene	<8.0		20	8.0	ug/L			11/01/18 14:25	20
Styrene	<7.7		20	7.7	ug/L			11/01/18 14:25	20
tert-Butylbenzene	<8.0		20	8.0	ug/L			11/01/18 14:25	20
1,1,1,2-Tetrachloroethane	<9.2		20	9.2	ug/L			11/01/18 14:25	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			11/01/18 14:25	20

Client Sample ID: MW-6

Date Collected: 10/18/18 14:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-11

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<7.4		20	7.4	ug/L			11/01/18 14:25	20
Tetrahydrofuran	<38		200	38	ug/L			11/01/18 14:25	20
Toluene	**1000**		10	3.0	ug/L			11/01/18 14:25	20
trans-1,2-Dichloroethene	<7.0		20	7.0	ug/L			11/01/18 14:25	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			11/01/18 14:25	20
1,2,3-Trichlorobenzene	<9.2		20	9.2	ug/L			11/01/18 14:25	20
1,2,4-Trichlorobenzene	<6.8		20	6.8	ug/L			11/01/18 14:25	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			11/01/18 14:25	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			11/01/18 14:25	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			11/01/18 14:25	20
1,2,3-Trichloropropane	<8.3		20	8.3	ug/L			11/01/18 14:25	20
1,2,4-Trimethylbenzene	**15**	**J**	20	7.2	ug/L			11/01/18 14:25	20
1,3,5-Trimethylbenzene	<5.1		20	5.1	ug/L			11/01/18 14:25	20
Vinyl chloride	**11**	**J**	20	4.1	ug/L			11/01/18 14:25	20
Xylenes, Total	**1000**		20	4.4	ug/L			11/01/18 14:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*11/01/18 14:25*	*20*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 14:25*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 14:25*	*20*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 14:25*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**8600**		100	33	ug/L			11/01/18 15:25	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*11/01/18 15:25*	*200*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 15:25*	*200*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*11/01/18 15:25*	*200*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 15:25*	*200*

Client Sample ID: MW-28D

Date Collected: 10/18/18 13:59
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-12

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.6**	**J**	5.0	1.7	ug/L			10/31/18 18:01	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 18:01	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:01	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 18:01	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 18:01	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 18:01	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 18:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 18:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 18:01	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 18:01	1

Client Sample ID: MW-28D
Date Collected: 10/18/18 13:59
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-12
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 18:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 18:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 18:01	1
cis-1,2-Dichloroethene	**15**		1.0	0.41	ug/L			10/31/18 18:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 18:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 18:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 18:01	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 18:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 18:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:01	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 18:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 18:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
1,1-Dichloroethene	**0.77**	**J**	1.0	0.39	ug/L			10/31/18 18:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 18:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 18:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 18:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 18:01	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 18:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 18:01	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 18:01	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 18:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 18:01	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 18:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 18:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 18:01	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 18:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:01	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 18:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:01	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 18:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 18:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 18:01	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 18:01	1
Toluene	**0.28**	**J**	0.50	0.15	ug/L			10/31/18 18:01	1
trans-1,2-Dichloroethene	**4.3**		1.0	0.35	ug/L			10/31/18 18:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 18:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 18:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 18:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 18:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 18:01	1
Trichloroethene	**190**		0.50	0.16	ug/L			10/31/18 18:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:01	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 18:01	1

Client Sample ID: MW-28D

Date Collected: 10/18/18 13:59
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-12
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:01	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 18:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 18:01	1
Xylenes, Total	**0.93**	**J**	1.0	0.22	ug/L			10/31/18 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*10/31/18 18:01*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/31/18 18:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*10/31/18 18:01*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*10/31/18 18:01*	*1*

Client Sample ID: MW-20C

Date Collected: 10/18/18 12:39
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-13
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.7**		5.0	1.7	ug/L			10/31/18 18:26	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 18:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 18:26	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 18:26	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 18:26	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 18:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 18:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 18:26	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 18:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 18:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 18:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 18:26	1
cis-1,2-Dichloroethene	**3.7**		1.0	0.41	ug/L			10/31/18 18:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 18:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 18:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 18:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 18:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 18:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:26	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 18:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 18:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 18:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 18:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 18:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 18:26	1
Ethylbenzene	**1.8**		0.50	0.18	ug/L			10/31/18 18:26	1

Client Sample ID: MW-20C

Lab Sample ID: 500-153531-13

Date Collected: 10/18/18 12:39

Matrix: Ground Water

Date Received: 10/20/18 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 18:26	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 18:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 18:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 18:26	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 18:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 18:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 18:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 18:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:26	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 18:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 18:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 18:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 18:26	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 18:26	1
Toluene	**6.1**		0.50	0.15	ug/L			10/31/18 18:26	1
trans-1,2-Dichloroethene	**0.70**	**J**	1.0	0.35	ug/L			10/31/18 18:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 18:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 18:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 18:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 18:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 18:26	1
Trichloroethene	**200**	**F1**	0.50	0.16	ug/L			10/31/18 18:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:26	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 18:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 18:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 18:26	1
Xylenes, Total	**8.0**		1.0	0.22	ug/L			10/31/18 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*10/31/18 18:26*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*10/31/18 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*10/31/18 18:26*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*10/31/18 18:26*	*1*

Client Sample ID: TB

Lab Sample ID: 500-153531-14

Date Collected: 10/18/18 00:00

Matrix: Water

Date Received: 10/20/18 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/01/18 17:53	1
Benzene	<0.15		0.50	0.15	ug/L			11/01/18 17:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/01/18 17:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/01/18 17:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/01/18 17:53	1

Client Sample ID: TB
Date Collected: 10/18/18 00:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.48		1.0	0.48	ug/L			11/01/18 17:53	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/01/18 17:53	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/01/18 17:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/01/18 17:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/01/18 17:53	1
Chloroform	<0.37		2.0	0.37	ug/L			11/01/18 17:53	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/01/18 17:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/01/18 17:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/01/18 17:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/01/18 17:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/01/18 17:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/01/18 17:53	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/01/18 17:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/01/18 17:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/01/18 17:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/01/18 17:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/01/18 17:53	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/01/18 17:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/01/18 17:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/01/18 17:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/01/18 17:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/01/18 17:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/01/18 17:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/01/18 17:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/01/18 17:53	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/01/18 17:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/01/18 17:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/01/18 17:53	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/01/18 17:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/01/18 17:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/01/18 17:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/01/18 17:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 17:53	1
Styrene	<0.39		1.0	0.39	ug/L			11/01/18 17:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 17:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/01/18 17:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/01/18 17:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/01/18 17:53	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/01/18 17:53	1
Toluene	<0.15		0.50	0.15	ug/L			11/01/18 17:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/01/18 17:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/01/18 17:53	1

Client Sample ID: TB

Lab Sample ID: 500-153531-14

Date Collected: 10/18/18 00:00

Matrix: Water

Date Received: 10/20/18 10:20

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			11/01/18 17:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/01/18 17:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/01/18 17:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/01/18 17:53	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/01/18 17:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/01/18 17:53	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/01/18 17:53	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/01/18 17:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/01/18 17:53	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/01/18 17:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/01/18 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 17:53*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*11/01/18 17:53*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*11/01/18 17:53*	*1*

Client Sample ID: MW-28D Dup

Lab Sample ID: 500-153531-15

Date Collected: 10/18/18 13:59

Matrix: Ground Water

Date Received: 10/20/18 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 23:21	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 23:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 23:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 23:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 23:21	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 23:21	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 23:21	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 23:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 23:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 23:21	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 23:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 23:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 23:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 23:21	1
cis-1,2-Dichloroethene	**15**		1.0	0.41	ug/L			10/31/18 23:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 23:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 23:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 23:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 23:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 23:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 23:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 23:21	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 23:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 23:21	1

Client Sample ID: MW-28D Dup
Date Collected: 10/18/18 13:59
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-15
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
1,1-Dichloroethene	**1.1**		1.0	0.39	ug/L			10/31/18 23:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 23:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 23:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 23:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 23:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 23:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 23:21	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 23:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 23:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 23:21	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 23:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 23:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 23:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 23:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 23:21	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 23:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 23:21	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 23:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 23:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 23:21	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 23:21	1
Toluene	**0.18**	**J**	0.50	0.15	ug/L			10/31/18 23:21	1
trans-1,2-Dichloroethene	**5.2**		1.0	0.35	ug/L			10/31/18 23:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 23:21	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 23:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 23:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 23:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 23:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 23:21	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 23:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 23:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 23:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 23:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*10/31/18 23:21*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/31/18 23:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*10/31/18 23:21*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/31/18 23:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**150**		5.0	1.6	ug/L			11/01/18 15:54	10

Client Sample ID: MW-28D Dup
Date Collected: 10/18/18 13:59
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-15
Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		11/01/18 15:54	10
Dibromofluoromethane	94		75 - 120		11/01/18 15:54	10
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		11/01/18 15:54	10
Toluene-d8 (Surr)	93		75 - 120		11/01/18 15:54	10

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits

Glossary

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

GC/MS VOA

Analysis Batch: 457682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153531-5	MW-1C	Total/NA	Ground Water	8260B	
500-153531-6	MW-19C	Total/NA	Ground Water	8260B	
500-153531-6 - DL	MW-19C	Total/NA	Ground Water	8260B	
500-153531-7	MW-4	Total/NA	Ground Water	8260B	
500-153531-8	MW-3	Total/NA	Ground Water	8260B	
500-153531-8 - DL	MW-3	Total/NA	Ground Water	8260B	
500-153531-9	MW-5	Total/NA	Ground Water	8260B	
500-153531-9 - DL	MW-5	Total/NA	Ground Water	8260B	
500-153531-10	MW-26C	Total/NA	Ground Water	8260B	
500-153531-12	MW-28D	Total/NA	Ground Water	8260B	
500-153531-13	MW-20C	Total/NA	Ground Water	8260B	
MB 500-457682/6	Method Blank	Total/NA	Water	8260B	
LCS 500-457682/4	Lab Control Sample	Total/NA	Water	8260B	
500-153531-13 MS	MW-20C	Total/NA	Ground Water	8260B	
500-153531-13 MSD	MW-20C	Total/NA	Ground Water	8260B	

Analysis Batch: 457783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153531-1	MW-9	Total/NA	Ground Water	8260B	
500-153531-2	MW-8	Total/NA	Ground Water	8260B	
500-153531-3	MW-7	Total/NA	Ground Water	8260B	
500-153531-15	MW-28D Dup	Total/NA	Ground Water	8260B	
MB 500-457783/27	Method Blank	Total/NA	Water	8260B	
LCS 500-457783/5	Lab Control Sample	Total/NA	Water	8260B	
500-153531-3 MS	MW-7	Total/NA	Ground Water	8260B	
500-153531-3 MSD	MW-7	Total/NA	Ground Water	8260B	

Analysis Batch: 457859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153531-1 - DL	MW-9	Total/NA	Ground Water	8260B	
500-153531-2	MW-8	Total/NA	Ground Water	8260B	
500-153531-5 - DL	MW-1C	Total/NA	Ground Water	8260B	
500-153531-11	MW-6	Total/NA	Ground Water	8260B	
500-153531-11 - DL	MW-6	Total/NA	Ground Water	8260B	
500-153531-14	TB	Total/NA	Water	8260B	
500-153531-15 - DL	MW-28D Dup	Total/NA	Ground Water	8260B	
MB 500-457859/6	Method Blank	Total/NA	Water	8260B	
LCS 500-457859/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

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

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-153531-1	MW-9	102	95	97	93
500-153531-1 - DL	MW-9	98	94	96	92
500-153531-2	MW-8	103	97	97	92
500-153531-2	MW-8	102	95	95	92
500-153531-3	MW-7	103	96	99	92
500-153531-3 MS	MW-7	94	89	90	94
500-153531-3 MSD	MW-7	96	89	88	93
500-153531-5	MW-1C	112	88	100	101
500-153531-5 - DL	MW-1C	100	93	95	92
500-153531-6	MW-19C	117	90	100	98
500-153531-6 - DL	MW-19C	118	89	101	98
500-153531-7	MW-4	119	87	100	98
500-153531-8	MW-3	118	84	102	102
500-153531-8 - DL	MW-3	117	87	103	99
500-153531-9	MW-5	103	87	99	107
500-153531-9 - DL	MW-5	117	86	98	102
500-153531-10	MW-26C	116	87	101	98
500-153531-11	MW-6	101	94	95	92
500-153531-11 - DL	MW-6	101	94	96	92
500-153531-12	MW-28D	116	87	103	99
500-153531-13	MW-20C	117	87	103	97
500-153531-13 MS	MW-20C	104	94	101	103
500-153531-13 MSD	MW-20C	101	93	98	104
500-153531-15	MW-28D Dup	101	93	96	93
500-153531-15 - DL	MW-28D Dup	101	94	94	93

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-153531-14	TB	100	94	92	91
LCS 500-457682/4	Lab Control Sample	102	90	93	108
LCS 500-457783/5	Lab Control Sample	96	89	90	93
LCS 500-457859/4	Lab Control Sample	94	89	92	94
MB 500-457682/6	Method Blank	122	89	101	99
MB 500-457783/27	Method Blank	101	93	92	92
MB 500-457859/6	Method Blank	100	95	98	92

Surrogate Legend

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

Surrogate Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 500-457682/6
Matrix: Water
Analysis Batch: 457682

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 10:04	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 10:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 10:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 10:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 10:04	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 10:04	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 10:04	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 10:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 10:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 10:04	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 10:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 10:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 10:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 10:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/31/18 10:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 10:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 10:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 10:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 10:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 10:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 10:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 10:04	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 10:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 10:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 10:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 10:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 10:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 10:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 10:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 10:04	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 10:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 10:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 10:04	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 10:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 10:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 10:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 10:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 10:04	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 10:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 10:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 10:04	1

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

Lab Sample ID: MB 500-457682/6
Matrix: Water
Analysis Batch: 457682

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 10:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 10:04	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 10:04	1
Toluene	<0.15		0.50	0.15	ug/L			10/31/18 10:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 10:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 10:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 10:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 10:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 10:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 10:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/31/18 10:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 10:04	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 10:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 10:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 10:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 10:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*72 - 124*		*10/31/18 10:04*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*10/31/18 10:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*10/31/18 10:04*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*10/31/18 10:04*	*1*

Lab Sample ID: LCS 500-457682/4
Matrix: Water
Analysis Batch: 457682

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	46.2		ug/L		92	40 - 143
Benzene	50.0	51.4		ug/L		103	70 - 120
Bromobenzene	50.0	51.5		ug/L		103	70 - 122
Bromochloromethane	50.0	48.9		ug/L		98	65 - 122
Bromodichloromethane	50.0	50.6		ug/L		101	69 - 120
Bromoform	50.0	50.1		ug/L		100	56 - 132
Bromomethane	50.0	42.2		ug/L		84	40 - 152
2-Butanone (MEK)	50.0	42.4		ug/L		85	46 - 144
Carbon tetrachloride	50.0	43.8		ug/L		88	59 - 133
Chlorobenzene	50.0	53.5		ug/L		107	70 - 120
Chloroethane	50.0	46.8		ug/L		94	48 - 136
Chloroform	50.0	48.7		ug/L		97	70 - 120
Chloromethane	50.0	40.6		ug/L		81	56 - 152
2-Chlorotoluene	50.0	55.7		ug/L		111	70 - 125
4-Chlorotoluene	50.0	54.9		ug/L		110	68 - 124
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 125
cis-1,3-Dichloropropene	50.0	59.5		ug/L		119	64 - 127
Dibromochloromethane	50.0	54.3		ug/L		109	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/L		108	56 - 123

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

Lab Sample ID: LCS 500-457682/4
Matrix: Water
Analysis Batch: 457682

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	50.0	55.3		ug/L		111	70 - 125
Dibromomethane	50.0	49.7		ug/L		99	70 - 120
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 125
1,3-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 125
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	70 - 120
Dichlorodifluoromethane	50.0	48.7		ug/L		97	40 - 159
1,1-Dichloroethane	50.0	49.7		ug/L		99	70 - 125
1,2-Dichloroethane	50.0	49.7		ug/L		99	68 - 127
1,1-Dichloroethene	50.0	45.4		ug/L		91	67 - 122
1,2-Dichloropropane	50.0	52.8		ug/L		106	67 - 130
1,3-Dichloropropane	50.0	58.6		ug/L		117	62 - 136
2,2-Dichloropropane	50.0	40.2		ug/L		80	58 - 139
1,1-Dichloropropene	50.0	55.6		ug/L		111	70 - 121
Ethylbenzene	50.0	51.2		ug/L		102	70 - 123
Hexachlorobutadiene	50.0	58.2		ug/L		116	51 - 150
2-Hexanone	50.0	52.6		ug/L		105	54 - 146
Isopropylbenzene	50.0	54.4		ug/L		109	70 - 126
Methylene Chloride	50.0	45.9		ug/L		92	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	51.1		ug/L		102	55 - 139
Methyl tert-butyl ether	50.0	44.4		ug/L		89	55 - 123
Naphthalene	50.0	60.9		ug/L		122	53 - 144
n-Butylbenzene	50.0	62.2		ug/L		124	68 - 125
N-Propylbenzene	50.0	57.0		ug/L		114	69 - 127
p-Isopropyltoluene	50.0	56.7		ug/L		113	70 - 125
sec-Butylbenzene	50.0	56.3		ug/L		113	70 - 123
Styrene	50.0	52.9		ug/L		106	70 - 120
tert-Butylbenzene	50.0	53.8		ug/L		108	70 - 121
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/L		106	70 - 125
1,1,2,2-Tetrachloroethane	50.0	61.7		ug/L		123	62 - 140
Tetrachloroethene	50.0	54.9		ug/L		110	70 - 128
Tetrahydrofuran	100	91.3		ug/L		91	59 - 139
Toluene	50.0	57.3		ug/L		115	70 - 125
trans-1,2-Dichloroethene	50.0	46.8		ug/L		94	70 - 125
trans-1,3-Dichloropropene	50.0	54.0		ug/L		108	62 - 128
1,2,3-Trichlorobenzene	50.0	59.2		ug/L		118	51 - 145
1,2,4-Trichlorobenzene	50.0	59.8		ug/L		120	57 - 137
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	70 - 125
1,1,2-Trichloroethane	50.0	58.7		ug/L		117	71 - 130
Trichloroethene	50.0	51.2		ug/L		102	70 - 125
Trichlorofluoromethane	50.0	41.3		ug/L		83	55 - 128
1,2,3-Trichloropropane	50.0	55.1		ug/L		110	50 - 133
1,2,4-Trimethylbenzene	50.0	55.1		ug/L		110	70 - 123
1,3,5-Trimethylbenzene	50.0	54.2		ug/L		108	70 - 123
Vinyl chloride	50.0	37.9		ug/L		76	64 - 126
Xylenes, Total	100	107		ug/L		107	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*

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

Lab Sample ID: LCS 500-457682/4
Matrix: Water
Analysis Batch: 457682

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*90*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
Toluene-d8 (Surr)	*108*		*75 - 120*

Lab Sample ID: 500-153531-13 MS
Matrix: Ground Water
Analysis Batch: 457682

Client Sample ID: MW-20C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.7		50.0	54.8		ug/L		98	40 - 143
Benzene	<0.15		50.0	43.6		ug/L		87	70 - 120
Bromobenzene	<0.36		50.0	45.1		ug/L		90	70 - 122
Bromochloromethane	<0.43		50.0	44.3		ug/L		89	65 - 122
Bromodichloromethane	<0.37		50.0	42.9		ug/L		86	69 - 120
Bromoform	<0.48		50.0	40.9		ug/L		82	56 - 132
Bromomethane	<0.80		50.0	40.1		ug/L		80	40 - 152
2-Butanone (MEK)	<2.1		50.0	48.4		ug/L		97	46 - 144
Carbon tetrachloride	<0.38		50.0	34.8		ug/L		70	59 - 133
Chlorobenzene	<0.39		50.0	43.9		ug/L		88	70 - 120
Chloroethane	<0.51		50.0	40.7		ug/L		81	48 - 136
Chloroform	<0.37		50.0	42.4		ug/L		85	70 - 120
Chloromethane	<0.32		50.0	32.5		ug/L		65	56 - 152
2-Chlorotoluene	<0.31		50.0	46.4		ug/L		93	70 - 125
4-Chlorotoluene	<0.35		50.0	45.9		ug/L		92	68 - 124
cis-1,2-Dichloroethene	3.7		50.0	46.5		ug/L		86	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	48.6		ug/L		97	64 - 127
Dibromochloromethane	<0.49		50.0	44.0		ug/L		88	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	45.8		ug/L		92	56 - 123
1,2-Dibromoethane	<0.39		50.0	49.5		ug/L		99	70 - 125
Dibromomethane	<0.27		50.0	45.6		ug/L		91	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	46.8		ug/L		94	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	44.6		ug/L		89	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	45.1		ug/L		90	70 - 120
Dichlorodifluoromethane	<0.67		50.0	41.0		ug/L		82	40 - 159
1,1-Dichloroethane	<0.41		50.0	42.4		ug/L		85	70 - 125
1,2-Dichloroethane	<0.39		50.0	45.1		ug/L		90	68 - 127
1,1-Dichloroethene	<0.39		50.0	38.1		ug/L		76	67 - 122
1,2-Dichloropropane	<0.43		50.0	46.7		ug/L		93	67 - 130
1,3-Dichloropropane	<0.36		50.0	51.5		ug/L		103	62 - 136
2,2-Dichloropropane	<0.44		50.0	31.0		ug/L		62	58 - 139
1,1-Dichloropropene	<0.30		50.0	45.4		ug/L		91	70 - 121
Ethylbenzene	1.8		50.0	43.5		ug/L		83	70 - 123
Hexachlorobutadiene	<0.45		50.0	47.3		ug/L		95	51 - 150
2-Hexanone	<1.6		50.0	60.3		ug/L		121	54 - 146
Isopropylbenzene	<0.39		50.0	44.7		ug/L		89	70 - 126
Methylene Chloride	<1.6		50.0	41.6		ug/L		83	69 - 125
4-Methyl-2-pentanone (MIBK)	<2.2		50.0	57.0		ug/L		114	55 - 139
Methyl tert-butyl ether	<0.39		50.0	42.1		ug/L		84	55 - 123

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

Lab Sample ID: 500-153531-13 MS
Matrix: Ground Water
Analysis Batch: 457682

Client Sample ID: MW-20C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	<0.34		50.0	54.3		ug/L		109	53 - 144
n-Butylbenzene	<0.39		50.0	48.9		ug/L		98	68 - 125
N-Propylbenzene	<0.41		50.0	46.8		ug/L		94	69 - 127
p-Isopropyltoluene	<0.36		50.0	46.2		ug/L		92	70 - 125
sec-Butylbenzene	<0.40		50.0	46.4		ug/L		93	70 - 123
Styrene	<0.39		50.0	44.9		ug/L		90	70 - 120
tert-Butylbenzene	<0.40		50.0	43.8		ug/L		88	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	43.9		ug/L		88	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	57.4		ug/L		115	62 - 140
Tetrachloroethene	<0.37		50.0	44.7		ug/L		89	70 - 128
Tetrahydrofuran	<1.9		100	83.9		ug/L		84	59 - 139
Toluene	6.1		50.0	52.3		ug/L		92	70 - 125
trans-1,2-Dichloroethene	0.70	J	50.0	40.6		ug/L		80	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	45.6		ug/L		91	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	50.6		ug/L		101	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	48.6		ug/L		97	57 - 137
1,1,1-Trichloroethane	<0.38		50.0	37.0		ug/L		74	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	51.4		ug/L		103	71 - 130
Trichloroethene	200	F1	50.0	229	E F1	ug/L		68	70 - 125
Trichlorofluoromethane	<0.43		50.0	36.4		ug/L		73	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	53.5		ug/L		107	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	46.4		ug/L		93	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	45.0		ug/L		90	70 - 123
Vinyl chloride	<0.20		50.0	32.8		ug/L		66	64 - 126
Xylenes, Total	8.0		100	95.7		ug/L		88	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: 500-153531-13 MSD
Matrix: Ground Water
Analysis Batch: 457682

Client Sample ID: MW-20C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	5.7		50.0	58.0		ug/L		105	40 - 143	6	20
Benzene	<0.15		50.0	52.8		ug/L		106	70 - 120	19	20
Bromobenzene	<0.36		50.0	51.6		ug/L		103	70 - 122	13	20
Bromochloromethane	<0.43		50.0	52.4		ug/L		105	65 - 122	17	20
Bromodichloromethane	<0.37		50.0	51.1		ug/L		102	69 - 120	18	20
Bromoform	<0.48		50.0	49.0		ug/L		98	56 - 132	18	20
Bromomethane	<0.80		50.0	41.7		ug/L		83	40 - 152	4	20
2-Butanone (MEK)	<2.1		50.0	46.8		ug/L		94	46 - 144	3	20
Carbon tetrachloride	<0.38		50.0	42.4		ug/L		85	59 - 133	20	20
Chlorobenzene	<0.39		50.0	52.7		ug/L		105	70 - 120	18	20
Chloroethane	<0.51		50.0	42.3		ug/L		85	48 - 136	4	20

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

Lab Sample ID: 500-153531-13 MSD
Matrix: Ground Water
Analysis Batch: 457682

Client Sample ID: MW-20C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	<0.37		50.0	51.1		ug/L		102	70 - 120	19	20
Chloromethane	<0.32		50.0	36.8		ug/L		74	56 - 152	12	20
2-Chlorotoluene	<0.31		50.0	54.1		ug/L		108	70 - 125	15	20
4-Chlorotoluene	<0.35		50.0	53.5		ug/L		107	68 - 124	15	20
cis-1,2-Dichloroethene	3.7		50.0	54.0		ug/L		101	70 - 125	15	20
cis-1,3-Dichloropropene	<0.42		50.0	57.5		ug/L		115	64 - 127	17	20
Dibromochloromethane	<0.49		50.0	51.8		ug/L		104	68 - 125	16	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	51.3		ug/L		103	56 - 123	11	20
1,2-Dibromoethane	<0.39		50.0	55.0		ug/L		110	70 - 125	10	20
Dibromomethane	<0.27		50.0	53.5		ug/L		107	70 - 120	16	20
1,2-Dichlorobenzene	<0.33		50.0	53.0		ug/L		106	70 - 125	12	20
1,3-Dichlorobenzene	<0.40		50.0	50.9		ug/L		102	70 - 125	13	20
1,4-Dichlorobenzene	<0.36		50.0	52.0		ug/L		104	70 - 120	14	20
Dichlorodifluoromethane	<0.67		50.0	42.6		ug/L		85	40 - 159	4	20
1,1-Dichloroethane	<0.41		50.0	51.5		ug/L		103	70 - 125	19	20
1,2-Dichloroethane	<0.39		50.0	53.2		ug/L		106	68 - 127	16	20
1,1-Dichloroethene	<0.39		50.0	45.3		ug/L		91	67 - 122	17	20
1,2-Dichloropropane	<0.43		50.0	54.1		ug/L		108	67 - 130	15	20
1,3-Dichloropropane	<0.36		50.0	61.0		ug/L		122	62 - 136	17	20
2,2-Dichloropropane	<0.44		50.0	36.3		ug/L		73	58 - 139	16	20
1,1-Dichloropropene	<0.30		50.0	54.2		ug/L		108	70 - 121	18	20
Ethylbenzene	1.8		50.0	51.0		ug/L		98	70 - 123	16	20
Hexachlorobutadiene	<0.45		50.0	53.6		ug/L		107	51 - 150	13	20
2-Hexanone	<1.6		50.0	56.0		ug/L		112	54 - 146	7	20
Isopropylbenzene	<0.39		50.0	52.2		ug/L		104	70 - 126	15	20
Methylene Chloride	<1.6		50.0	48.3		ug/L		97	69 - 125	15	20
4-Methyl-2-pentanone (MIBK)	<2.2		50.0	51.7		ug/L		103	55 - 139	10	20
Methyl tert-butyl ether	<0.39		50.0	48.2		ug/L		96	55 - 123	13	20
Naphthalene	<0.34		50.0	60.3		ug/L		121	53 - 144	11	20
n-Butylbenzene	<0.39		50.0	56.5		ug/L		113	68 - 125	14	20
N-Propylbenzene	<0.41		50.0	55.1		ug/L		110	69 - 127	16	20
p-Isopropyltoluene	<0.36		50.0	53.8		ug/L		108	70 - 125	15	20
sec-Butylbenzene	<0.40		50.0	54.0		ug/L		108	70 - 123	15	20
Styrene	<0.39		50.0	53.2		ug/L		106	70 - 120	17	20
tert-Butylbenzene	<0.40		50.0	52.0		ug/L		104	70 - 121	17	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	51.8		ug/L		104	70 - 125	17	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	64.0		ug/L		128	62 - 140	11	20
Tetrachloroethene	<0.37		50.0	52.1		ug/L		104	70 - 128	15	20
Tetrahydrofuran	<1.9		100	103		ug/L		103	59 - 139	20	20
Toluene	6.1		50.0	61.5		ug/L		111	70 - 125	16	20
trans-1,2-Dichloroethene	0.70	J	50.0	47.8		ug/L		94	70 - 125	16	20
trans-1,3-Dichloropropene	<0.36		50.0	54.4		ug/L		109	62 - 128	18	20
1,2,3-Trichlorobenzene	<0.46		50.0	57.7		ug/L		115	51 - 145	13	20
1,2,4-Trichlorobenzene	<0.34		50.0	56.3		ug/L		113	57 - 137	15	20
1,1,1-Trichloroethane	<0.38		50.0	44.9		ug/L		90	70 - 125	19	20
1,1,2-Trichloroethane	<0.35		50.0	60.4		ug/L		121	71 - 130	16	20
Trichloroethene	200	F1	50.0	251	E	ug/L		111	70 - 125	9	20
Trichlorofluoromethane	<0.43		50.0	38.2		ug/L		76	55 - 128	5	20

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

Lab Sample ID: 500-153531-13 MSD
Matrix: Ground Water
Analysis Batch: 457682

Client Sample ID: MW-20C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	<0.41		50.0	55.3		ug/L		111	50 - 133	3	20
1,2,4-Trimethylbenzene	<0.36		50.0	53.9		ug/L		108	70 - 123	15	20
1,3,5-Trimethylbenzene	<0.25		50.0	52.7		ug/L		105	70 - 123	16	20
Vinyl chloride	<0.20		50.0	35.6		ug/L		71	64 - 126	8	20
Xylenes, Total	8.0		100	111		ug/L		103	70 - 125	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane	*93*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: MB 500-457783/27
Matrix: Water
Analysis Batch: 457783

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 18:57	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 18:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 18:57	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 18:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 18:57	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 18:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 18:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 18:57	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 18:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 18:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 18:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 18:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 18:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 18:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 18:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 18:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 18:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 18:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 18:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 18:57	1

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

Lab Sample ID: MB 500-457783/27
Matrix: Water
Analysis Batch: 457783

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 18:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 18:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 18:57	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 18:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 18:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 18:57	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 18:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 18:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 18:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 18:57	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 18:57	1
Toluene	<0.15		0.50	0.15	ug/L			10/31/18 18:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 18:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 18:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 18:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 18:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 18:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/31/18 18:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 18:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 18:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*10/31/18 18:57*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/31/18 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*10/31/18 18:57*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/31/18 18:57*	*1*

Lab Sample ID: LCS 500-457783/5
Matrix: Water
Analysis Batch: 457783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	38.9		ug/L		78	40 - 143
Benzene	50.0	45.1		ug/L		90	70 - 120

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

Lab Sample ID: LCS 500-457783/5
Matrix: Water
Analysis Batch: 457783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	51.3		ug/L		103	70 - 122
Bromochloromethane	50.0	45.5		ug/L		91	65 - 122
Bromodichloromethane	50.0	46.8		ug/L		94	69 - 120
Bromoform	50.0	55.0		ug/L		110	56 - 132
Bromomethane	50.0	33.8		ug/L		68	40 - 152
2-Butanone (MEK)	50.0	44.6		ug/L		89	46 - 144
Carbon tetrachloride	50.0	48.4		ug/L		97	59 - 133
Chlorobenzene	50.0	47.0		ug/L		94	70 - 120
Chloroethane	50.0	37.9		ug/L		76	48 - 136
Chloroform	50.0	46.1		ug/L		92	70 - 120
Chloromethane	50.0	40.1		ug/L		80	56 - 152
2-Chlorotoluene	50.0	47.3		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.2		ug/L		94	68 - 124
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 125
cis-1,3-Dichloropropene	50.0	43.2		ug/L		86	64 - 127
Dibromochloromethane	50.0	49.1		ug/L		98	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.2		ug/L		84	56 - 123
1,2-Dibromoethane	50.0	46.5		ug/L		93	70 - 125
Dibromomethane	50.0	45.0		ug/L		90	70 - 120
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 125
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	70 - 125
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 120
Dichlorodifluoromethane	50.0	52.2		ug/L		104	40 - 159
1,1-Dichloroethane	50.0	42.5		ug/L		85	70 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	68 - 127
1,1-Dichloroethene	50.0	45.7		ug/L		91	67 - 122
1,2-Dichloropropane	50.0	42.3		ug/L		85	67 - 130
1,3-Dichloropropane	50.0	45.5		ug/L		91	62 - 136
2,2-Dichloropropane	50.0	38.6		ug/L		77	58 - 139
1,1-Dichloropropene	50.0	45.5		ug/L		91	70 - 121
Ethylbenzene	50.0	47.4		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	58.9		ug/L		118	51 - 150
2-Hexanone	50.0	37.6		ug/L		75	54 - 146
Isopropylbenzene	50.0	47.8		ug/L		96	70 - 126
Methylene Chloride	50.0	42.4		ug/L		85	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	37.6		ug/L		75	55 - 139
Methyl tert-butyl ether	50.0	39.9		ug/L		80	55 - 123
Naphthalene	50.0	42.0		ug/L		84	53 - 144
n-Butylbenzene	50.0	47.5		ug/L		95	68 - 125
N-Propylbenzene	50.0	47.3		ug/L		95	69 - 127
p-Isopropyltoluene	50.0	48.2		ug/L		96	70 - 125
sec-Butylbenzene	50.0	48.0		ug/L		96	70 - 123
Styrene	50.0	47.7		ug/L		95	70 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	62 - 140
Tetrachloroethene	50.0	53.0		ug/L		106	70 - 128
Tetrahydrofuran	100	67.3		ug/L		67	59 - 139

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

Lab Sample ID: LCS 500-457783/5
Matrix: Water
Analysis Batch: 457783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	45.6		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	46.4		ug/L		93	70 - 125
trans-1,3-Dichloropropene	50.0	43.1		ug/L		86	62 - 128
1,2,3-Trichlorobenzene	50.0	51.2		ug/L		102	51 - 145
1,2,4-Trichlorobenzene	50.0	50.0		ug/L		100	57 - 137
1,1,1-Trichloroethane	50.0	46.0		ug/L		92	70 - 125
1,1,2-Trichloroethane	50.0	45.8		ug/L		92	71 - 130
Trichloroethene	50.0	47.7		ug/L		95	70 - 125
Trichlorofluoromethane	50.0	43.5		ug/L		87	55 - 128
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	50 - 133
1,2,4-Trimethylbenzene	50.0	47.6		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	50.0	47.3		ug/L		95	70 - 123
Vinyl chloride	50.0	51.8		ug/L		104	64 - 126
Xylenes, Total	100	90.5		ug/L		91	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: 500-153531-3 MS
Matrix: Ground Water
Analysis Batch: 457783

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<1.7		50.0	35.3		ug/L		71	40 - 143
Benzene	<0.15		50.0	42.3		ug/L		85	70 - 120
Bromobenzene	<0.36		50.0	49.9		ug/L		100	70 - 122
Bromochloromethane	<0.43		50.0	43.5		ug/L		87	65 - 122
Bromodichloromethane	<0.37		50.0	44.6		ug/L		89	69 - 120
Bromoform	<0.48		50.0	53.8		ug/L		108	56 - 132
Bromomethane	<0.80		50.0	28.8		ug/L		58	40 - 152
2-Butanone (MEK)	<2.1		50.0	39.7		ug/L		79	46 - 144
Carbon tetrachloride	<0.38		50.0	45.9		ug/L		92	59 - 133
Chlorobenzene	<0.39		50.0	46.2		ug/L		92	70 - 120
Chloroethane	<0.51		50.0	34.7		ug/L		69	48 - 136
Chloroform	<0.37		50.0	44.0		ug/L		88	70 - 120
Chloromethane	<0.32	F2	50.0	33.7		ug/L		67	56 - 152
2-Chlorotoluene	<0.31		50.0	45.8		ug/L		92	70 - 125
4-Chlorotoluene	<0.35		50.0	45.5		ug/L		91	68 - 124
cis-1,2-Dichloroethene	0.51	J	50.0	43.6		ug/L		86	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	40.1		ug/L		80	64 - 127
Dibromochloromethane	<0.49		50.0	48.7		ug/L		97	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	41.6		ug/L		83	56 - 123
1,2-Dibromoethane	<0.39		50.0	44.6		ug/L		89	70 - 125
Dibromomethane	<0.27		50.0	42.6		ug/L		85	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	46.9		ug/L		94	70 - 125

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

Lab Sample ID: 500-153531-3 MS
Matrix: Ground Water
Analysis Batch: 457783

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	<0.40		50.0	47.4		ug/L		95	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	46.6		ug/L		93	70 - 120
Dichlorodifluoromethane	<0.67		50.0	44.3		ug/L		89	40 - 159
1,1-Dichloroethane	<0.41		50.0	39.9		ug/L		80	70 - 125
1,2-Dichloroethane	<0.39		50.0	44.1		ug/L		88	68 - 127
1,1-Dichloroethene	<0.39		50.0	41.5		ug/L		83	67 - 122
1,2-Dichloropropane	<0.43		50.0	41.2		ug/L		82	67 - 130
1,3-Dichloropropane	<0.36		50.0	43.7		ug/L		87	62 - 136
2,2-Dichloropropane	<0.44		50.0	34.7		ug/L		69	58 - 139
1,1-Dichloropropene	<0.30		50.0	42.9		ug/L		86	70 - 121
Ethylbenzene	<0.18		50.0	46.7		ug/L		93	70 - 123
Hexachlorobutadiene	<0.45		50.0	55.2		ug/L		110	51 - 150
2-Hexanone	<1.6		50.0	33.4		ug/L		67	54 - 146
Isopropylbenzene	<0.39		50.0	46.1		ug/L		92	70 - 126
Methylene Chloride	<1.6		50.0	41.2		ug/L		82	69 - 125
4-Methyl-2-pentanone (MIBK)	<2.2		50.0	35.3		ug/L		71	55 - 139
Methyl tert-butyl ether	<0.39		50.0	36.1		ug/L		72	55 - 123
Naphthalene	<0.34		50.0	37.7		ug/L		75	53 - 144
n-Butylbenzene	<0.39		50.0	44.0		ug/L		88	68 - 125
N-Propylbenzene	<0.41		50.0	45.2		ug/L		90	69 - 127
p-Isopropyltoluene	<0.36		50.0	45.9		ug/L		92	70 - 125
sec-Butylbenzene	<0.40		50.0	46.3		ug/L		93	70 - 123
Styrene	<0.39		50.0	46.1		ug/L		92	70 - 120
tert-Butylbenzene	<0.40		50.0	46.6		ug/L		93	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	48.5		ug/L		97	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	45.3		ug/L		91	62 - 140
Tetrachloroethene	1.1		50.0	52.1		ug/L		102	70 - 128
Tetrahydrofuran	<1.9		100	60.2		ug/L		60	59 - 139
Toluene	<0.15		50.0	44.4		ug/L		89	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	43.2		ug/L		86	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	41.0		ug/L		82	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	46.8		ug/L		94	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	43.9		ug/L		88	57 - 137
1,1,1-Trichloroethane	<0.38		50.0	43.4		ug/L		87	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	45.5		ug/L		91	71 - 130
Trichloroethene	130		50.0	181		ug/L		100	70 - 125
Trichlorofluoromethane	<0.43		50.0	39.1		ug/L		78	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	48.2		ug/L		96	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	45.6		ug/L		91	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	45.7		ug/L		91	70 - 123
Vinyl chloride	<0.20		50.0	44.6		ug/L		89	64 - 126
Xylenes, Total	<0.22		100	88.1		ug/L		88	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: 500-153531-3 MSD
Matrix: Ground Water
Analysis Batch: 457783

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<1.7		50.0	31.7		ug/L		63	40 - 143	11	20
Benzene	<0.15		50.0	40.4		ug/L		81	70 - 120	5	20
Bromobenzene	<0.36		50.0	46.7		ug/L		93	70 - 122	7	20
Bromochloromethane	<0.43		50.0	41.5		ug/L		83	65 - 122	5	20
Bromodichloromethane	<0.37		50.0	42.9		ug/L		86	69 - 120	4	20
Bromoform	<0.48		50.0	50.8		ug/L		102	56 - 132	6	20
Bromomethane	<0.80		50.0	29.9		ug/L		60	40 - 152	4	20
2-Butanone (MEK)	<2.1		50.0	38.4		ug/L		77	46 - 144	3	20
Carbon tetrachloride	<0.38		50.0	44.0		ug/L		88	59 - 133	4	20
Chlorobenzene	<0.39		50.0	43.1		ug/L		86	70 - 120	7	20
Chloroethane	<0.51		50.0	35.9		ug/L		72	48 - 136	3	20
Chloroform	<0.37		50.0	41.8		ug/L		84	70 - 120	5	20
Chloromethane	<0.32	F2	50.0	41.4	F2	ug/L		83	56 - 152	21	20
2-Chlorotoluene	<0.31		50.0	44.3		ug/L		89	70 - 125	3	20
4-Chlorotoluene	<0.35		50.0	43.7		ug/L		87	68 - 124	4	20
cis-1,2-Dichloroethene	0.51	J	50.0	41.2		ug/L		81	70 - 125	6	20
cis-1,3-Dichloropropene	<0.42		50.0	38.4		ug/L		77	64 - 127	4	20
Dibromochloromethane	<0.49		50.0	46.0		ug/L		92	68 - 125	6	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	41.0		ug/L		82	56 - 123	1	20
1,2-Dibromoethane	<0.39		50.0	42.0		ug/L		84	70 - 125	6	20
Dibromomethane	<0.27		50.0	41.3		ug/L		83	70 - 120	3	20
1,2-Dichlorobenzene	<0.33		50.0	44.9		ug/L		90	70 - 125	4	20
1,3-Dichlorobenzene	<0.40		50.0	45.7		ug/L		91	70 - 125	4	20
1,4-Dichlorobenzene	<0.36		50.0	45.0		ug/L		90	70 - 120	4	20
Dichlorodifluoromethane	<0.67		50.0	46.0		ug/L		92	40 - 159	4	20
1,1-Dichloroethane	<0.41		50.0	38.0		ug/L		76	70 - 125	5	20
1,2-Dichloroethane	<0.39		50.0	42.4		ug/L		85	68 - 127	4	20
1,1-Dichloroethene	<0.39		50.0	40.0		ug/L		80	67 - 122	4	20
1,2-Dichloropropane	<0.43		50.0	39.6		ug/L		79	67 - 130	4	20
1,3-Dichloropropane	<0.36		50.0	41.0		ug/L		82	62 - 136	6	20
2,2-Dichloropropane	<0.44		50.0	33.5		ug/L		67	58 - 139	4	20
1,1-Dichloropropene	<0.30		50.0	40.3		ug/L		81	70 - 121	6	20
Ethylbenzene	<0.18		50.0	44.2		ug/L		88	70 - 123	6	20
Hexachlorobutadiene	<0.45		50.0	54.0		ug/L		108	51 - 150	2	20
2-Hexanone	<1.6		50.0	30.0		ug/L		60	54 - 146	11	20
Isopropylbenzene	<0.39		50.0	44.2		ug/L		88	70 - 126	4	20
Methylene Chloride	<1.6		50.0	40.0		ug/L		80	69 - 125	3	20
4-Methyl-2-pentanone (MIBK)	<2.2		50.0	31.6		ug/L		63	55 - 139	11	20
Methyl tert-butyl ether	<0.39		50.0	34.8		ug/L		70	55 - 123	4	20
Naphthalene	<0.34		50.0	36.9		ug/L		74	53 - 144	2	20
n-Butylbenzene	<0.39		50.0	42.7		ug/L		85	68 - 125	3	20
N-Propylbenzene	<0.41		50.0	43.6		ug/L		87	69 - 127	4	20
p-Isopropyltoluene	<0.36		50.0	43.9		ug/L		88	70 - 125	5	20
sec-Butylbenzene	<0.40		50.0	44.4		ug/L		89	70 - 123	4	20
Styrene	<0.39		50.0	43.6		ug/L		87	70 - 120	6	20
tert-Butylbenzene	<0.40		50.0	45.0		ug/L		90	70 - 121	4	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	45.4		ug/L		91	70 - 125	7	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	43.5		ug/L		87	62 - 140	4	20
Tetrachloroethene	1.1		50.0	49.5		ug/L		97	70 - 128	5	20
Tetrahydrofuran	<1.9		100	59.2		ug/L		59	59 - 139	2	20

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

Lab Sample ID: 500-153531-3 MSD
Matrix: Ground Water
Analysis Batch: 457783

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.15		50.0	42.0		ug/L		84	70 - 125	5	20
trans-1,2-Dichloroethene	<0.35		50.0	41.7		ug/L		83	70 - 125	4	20
trans-1,3-Dichloropropene	<0.36		50.0	38.4		ug/L		77	62 - 128	7	20
1,2,3-Trichlorobenzene	<0.46		50.0	45.6		ug/L		91	51 - 145	3	20
1,2,4-Trichlorobenzene	<0.34		50.0	43.2		ug/L		86	57 - 137	2	20
1,1,1-Trichloroethane	<0.38		50.0	41.1		ug/L		82	70 - 125	6	20
1,1,2-Trichloroethane	<0.35		50.0	42.1		ug/L		84	71 - 130	8	20
Trichloroethene	130		50.0	173		ug/L		83	70 - 125	5	20
Trichlorofluoromethane	<0.43		50.0	39.9		ug/L		80	55 - 128	2	20
1,2,3-Trichloropropane	<0.41		50.0	44.0		ug/L		88	50 - 133	9	20
1,2,4-Trimethylbenzene	<0.36		50.0	43.8		ug/L		88	70 - 123	4	20
1,3,5-Trimethylbenzene	<0.25		50.0	43.8		ug/L		88	70 - 123	4	20
Vinyl chloride	<0.20		50.0	46.4		ug/L		93	64 - 126	4	20
Xylenes, Total	<0.22		100	83.0		ug/L		83	70 - 125	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: MB 500-457859/6
Matrix: Water
Analysis Batch: 457859

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/01/18 10:28	1
Benzene	<0.15		0.50	0.15	ug/L			11/01/18 10:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/01/18 10:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/01/18 10:28	1
Bromoform	<0.48		1.0	0.48	ug/L			11/01/18 10:28	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/01/18 10:28	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/01/18 10:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/01/18 10:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/01/18 10:28	1
Chloroform	<0.37		2.0	0.37	ug/L			11/01/18 10:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/01/18 10:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/01/18 10:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/01/18 10:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/01/18 10:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/01/18 10:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/01/18 10:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/01/18 10:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/01/18 10:28	1

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

Lab Sample ID: MB 500-457859/6
Matrix: Water
Analysis Batch: 457859

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/01/18 10:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/01/18 10:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/01/18 10:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/01/18 10:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/01/18 10:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/01/18 10:28	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/01/18 10:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/01/18 10:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/01/18 10:28	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/01/18 10:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/01/18 10:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
Styrene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/01/18 10:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/01/18 10:28	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/01/18 10:28	1
Toluene	<0.15		0.50	0.15	ug/L			11/01/18 10:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/01/18 10:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/01/18 10:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/01/18 10:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/01/18 10:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/01/18 10:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/01/18 10:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/01/18 10:28	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/01/18 10:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/01/18 10:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/01/18 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 10:28*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/01/18 10:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*11/01/18 10:28*	*1*

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

Lab Sample ID: MB 500-457859/6
Matrix: Water
Analysis Batch: 457859

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		75 - 120		11/01/18 10:28	1

Lab Sample ID: LCS 500-457859/4
Matrix: Water
Analysis Batch: 457859

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	45.6		ug/L		91	40 - 143
Benzene	50.0	43.2		ug/L		86	70 - 120
Bromobenzene	50.0	49.5		ug/L		99	70 - 122
Bromochloromethane	50.0	44.8		ug/L		90	65 - 122
Bromodichloromethane	50.0	45.7		ug/L		91	69 - 120
Bromoform	50.0	56.0		ug/L		112	56 - 132
Bromomethane	50.0	37.9		ug/L		76	40 - 152
2-Butanone (MEK)	50.0	46.2		ug/L		92	46 - 144
Carbon tetrachloride	50.0	47.0		ug/L		94	59 - 133
Chlorobenzene	50.0	46.3		ug/L		93	70 - 120
Chloroethane	50.0	44.5		ug/L		89	48 - 136
Chloroform	50.0	44.3		ug/L		89	70 - 120
Chloromethane	50.0	53.1		ug/L		106	56 - 152
2-Chlorotoluene	50.0	45.6		ug/L		91	70 - 125
4-Chlorotoluene	50.0	46.1		ug/L		92	68 - 124
cis-1,2-Dichloroethene	50.0	43.1		ug/L		86	70 - 125
cis-1,3-Dichloropropene	50.0	43.2		ug/L		86	64 - 127
Dibromochloromethane	50.0	49.8		ug/L		100	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/L		87	56 - 123
1,2-Dibromoethane	50.0	47.5		ug/L		95	70 - 125
Dibromomethane	50.0	45.5		ug/L		91	70 - 120
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 125
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	64.3		ug/L		129	40 - 159
1,1-Dichloroethane	50.0	41.2		ug/L		82	70 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	68 - 127
1,1-Dichloroethene	50.0	43.4		ug/L		87	67 - 122
1,2-Dichloropropane	50.0	42.2		ug/L		84	67 - 130
1,3-Dichloropropane	50.0	45.3		ug/L		91	62 - 136
2,2-Dichloropropane	50.0	37.4		ug/L		75	58 - 139
1,1-Dichloropropene	50.0	44.0		ug/L		88	70 - 121
Ethylbenzene	50.0	46.3		ug/L		93	70 - 123
Hexachlorobutadiene	50.0	56.7		ug/L		113	51 - 150
2-Hexanone	50.0	38.5		ug/L		77	54 - 146
Isopropylbenzene	50.0	45.8		ug/L		92	70 - 126
Methylene Chloride	50.0	41.5		ug/L		83	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	40.3		ug/L		81	55 - 139
Methyl tert-butyl ether	50.0	39.4		ug/L		79	55 - 123
Naphthalene	50.0	41.0		ug/L		82	53 - 144
n-Butylbenzene	50.0	45.7		ug/L		91	68 - 125

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

Lab Sample ID: LCS 500-457859/4
Matrix: Water
Analysis Batch: 457859

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	50.0	45.2		ug/L		90	69 - 127
p-Isopropyltoluene	50.0	46.2		ug/L		92	70 - 125
sec-Butylbenzene	50.0	46.1		ug/L		92	70 - 123
Styrene	50.0	46.8		ug/L		94	70 - 120
tert-Butylbenzene	50.0	46.5		ug/L		93	70 - 121
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	62 - 140
Tetrachloroethene	50.0	51.4		ug/L		103	70 - 128
Tetrahydrofuran	100	72.5		ug/L		72	59 - 139
Toluene	50.0	44.3		ug/L		89	70 - 125
trans-1,2-Dichloroethene	50.0	44.3		ug/L		89	70 - 125
trans-1,3-Dichloropropene	50.0	43.4		ug/L		87	62 - 128
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	51 - 145
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	57 - 137
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	71 - 130
Trichloroethene	50.0	45.2		ug/L		90	70 - 125
Trichlorofluoromethane	50.0	49.2		ug/L		98	55 - 128
1,2,3-Trichloropropane	50.0	48.1		ug/L		96	50 - 133
1,2,4-Trimethylbenzene	50.0	45.7		ug/L		91	70 - 123
1,3,5-Trimethylbenzene	50.0	45.7		ug/L		91	70 - 123
Vinyl chloride	50.0	58.8		ug/L		118	64 - 126
Xylenes, Total	100	88.8		ug/L		89	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-9
Date Collected: 10/18/18 10:20
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	457783	10/31/18 21:24	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10000	457859	11/01/18 11:28	PMF	TAL CHI

Client Sample ID: MW-8
Date Collected: 10/18/18 10:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457783	10/31/18 21:53	PMF	TAL CHI
Total/NA	Analysis	8260B		10	457859	11/01/18 11:57	PMF	TAL CHI

Client Sample ID: MW-7
Date Collected: 10/18/18 11:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457783	10/31/18 22:23	PMF	TAL CHI

Client Sample ID: MW-1C
Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	457682	10/31/18 13:50	JJH	TAL CHI
Total/NA	Analysis	8260B	DL	200	457859	11/01/18 13:56	PMF	TAL CHI

Client Sample ID: MW-19C
Date Collected: 10/18/18 15:01
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	457682	10/31/18 14:40	JJH	TAL CHI
Total/NA	Analysis	8260B	DL	500	457682	10/31/18 15:05	JJH	TAL CHI

Client Sample ID: MW-4
Date Collected: 10/18/18 13:16
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457682	10/31/18 15:30	JJH	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: MW-3
Date Collected: 10/18/18 12:06
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	457682	10/31/18 15:56	JJH	TAL CHI
Total/NA	Analysis	8260B	DL	50	457682	10/31/18 16:21	JJH	TAL CHI

Client Sample ID: MW-5
Date Collected: 10/18/18 15:46
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457682	10/31/18 16:46	JJH	TAL CHI
Total/NA	Analysis	8260B	DL	10	457682	10/31/18 17:11	JJH	TAL CHI

Client Sample ID: MW-26C
Date Collected: 10/18/18 11:16
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-10
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457682	10/31/18 17:36	JJH	TAL CHI

Client Sample ID: MW-6
Date Collected: 10/18/18 14:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	457859	11/01/18 14:25	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	200	457859	11/01/18 15:25	PMF	TAL CHI

Client Sample ID: MW-28D
Date Collected: 10/18/18 13:59
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457682	10/31/18 18:01	JJH	TAL CHI

Client Sample ID: MW-20C
Date Collected: 10/18/18 12:39
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457682	10/31/18 18:26	JJH	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

Client Sample ID: TB

Lab Sample ID: 500-153531-14

Date Collected: 10/18/18 00:00
Matrix: Water
Date Received: 10/20/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457859	11/01/18 17:53	PMF	TAL CHI

Client Sample ID: MW-28D Dup

Lab Sample ID: 500-153531-15

Date Collected: 10/18/18 13:59
Matrix: Ground Water
Date Received: 10/20/18 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457783	10/31/18 23:21	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10	457859	11/01/18 15:54	PMF	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: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-1

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	08-31-19

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84 W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84 W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153531
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 1.3

Client: SCS Engineers
Client Project #:
Project Name: Keck Farm
Project Location/State: WI
Lab Project #:
Sampler: Charlie Bills
Lab PM:

Preservative: 1
Parameter: VOCs (8260B)

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

500-153531 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (8260B)	Comments
1		MW-9	10/18/18	1020	3	GW	3	
2		MW-8		1050	3	GW	3	
3		MW-7		1100	3	GW	3	
4		PW-1C		1255	3	GW	3	
5		MW-1C		1546	3	GW	3	
6		MW-19C		1501	3	GW	3	
7		MW-4		1316	3	GW	3	
8		MW-3		1206	3	GW	3	
9		MW-5		1546	3	GW	3	
10		MW-26C		1116	3	GW	3	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date: _____

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

	Company	Date	Time		Company	Date	Time
Relinquished By: Charlie B.	SCS	10/19/18	1300	Received By:	TA	10-19-18	1300
Relinquished By:	TA	10-19-18	1700	Received By:	TALLE	10/20/18	1820
Relinquished By:	Company	Date	Time	Received By:	Company	Date	Time

Lab Courier:
Shipped: FXSATVirdem
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:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153531
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 1.3

Client: SCS Engineers
Client Project #:
Project Name: Keck Farm
Project Location/State: WI
Lab Project #:
Sampler: Charlie Bills
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC (8260 B)									Comments
11		MW-6	10/18/18	1450	3	GW		3									
12		MW-28D	10/18/18	1359	3	GW		3									
13		MW-20C	10/18/18	1239	3	GW		3									
14		TB															
15		MW-28D Dup	10/18/18	1359	3	GW		3									
16		Tote 1	10/19/18	0840	3	GW		3									
17		Tote 2	↓	0845	3	GW		3									
18		Tote 3		0850	3	GW		3									
19		Tote 4		0855	3	GW		3									
20		Tote 6	↓	0900	3	GW		3									

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	SCS	10/19/18	1300	[signature]	TA	10-19-18	1500
[signature]	TA	10-19-18	1700	[signature]	TA/ES	10/20/18	1020

Lab Courier:
Shipped: FX SATURDAY
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:

TAL-4124-500 (1209)

1 - 48 qt

500-153531 Waybill

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-153531-1

Login Number: 153531
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
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	

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-154060-1
Client Project/Site: Keck Farm - 25218118.00.

For:
SCS Engineers
N84 W 13540 Leon Rd
Menomonee Falls, Wisconsin 53051

Attn: Mike Prattke

Sandie Fredrick

Authorized for release by:
11/12/2018 5:33:03 PM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Job ID: 500-154060-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-154060-1

Comments
No additional comments.

Receipt
The samples were received on 10/31/2018 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions
The following samples were received with headspace in the sample container. This sample container was received with headspace. MW-43D (500-154060-1), MW-44D (500-154060-2), MW-36D (500-154060-3) and MW-44D Dup (500-154060-8).

GC/MS VOA
Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-43D (500-154060-1), MW-44D (500-154060-2), MW-36D (500-154060-3), MW-40D (500-154060-6) and MW-44D Dup (500-154060-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Methylene Chloride and Acetone are known lab contaminants; therefore all low level detects for these compounds should be suspected as lab contamination. MW-43D (500-154060-1), MW-44D (500-154060-2), MW-36D (500-154060-3), MW-46D (500-154060-4), MW-45D (500-154060-5), MW-40D (500-154060-6), MW-35D (500-154060-7), MW-44D Dup (500-154060-8) and TB (500-154060-9).

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: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: MW-43D — Lab Sample ID: 500-154060-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	880		10	3.3	ug/L	20		8260B	Total/NA

Client Sample ID: MW-44D — Lab Sample ID: 500-154060-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.3	J	10	3.5	ug/L	2		8260B	Total/NA
Benzene	0.32	J	1.0	0.29	ug/L	2		8260B	Total/NA
Chloroethane	1.6	J	2.0	1.0	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	2.3		2.0	0.78	ug/L	2		8260B	Total/NA
Methylene Chloride	4.2	J	10	3.3	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	94		2.0	0.70	ug/L	2		8260B	Total/NA
Trichloroethene	16		1.0	0.33	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1100		20	8.2	ug/L	20		8260B	Total/NA
Vinyl chloride - DL	450		20	4.1	ug/L	20		8260B	Total/NA

Client Sample ID: MW-36D — Lab Sample ID: 500-154060-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	5.0	1.7	ug/L	1		8260B	Total/NA
Chloroethane	0.51	J	1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	81		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	24		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	32		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	17		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-46D — Lab Sample ID: 500-154060-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.30	J	0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	0.30	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-45D — Lab Sample ID: 500-154060-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	38		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	36		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.4		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-40D — Lab Sample ID: 500-154060-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	4.5	J	5.0	2.5	ug/L	5		8260B	Total/NA
Tetrahydrofuran	13	J	50	9.4	ug/L	5		8260B	Total/NA
Toluene	0.87	J	2.5	0.76	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	70		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	210		5.0	1.0	ug/L	5		8260B	Total/NA
Xylenes, Total	1.1	J	5.0	1.1	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	2400		50	20	ug/L	50		8260B	Total/NA
Trichloroethene - DL	1500		25	8.2	ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: MW-35D — Lab Sample ID: 500-154060-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		5.0	1.7	ug/L	1		8260B	Total/NA
Benzene	0.29	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	6.9		1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrahydrofuran	26		10	1.9	ug/L	1		8260B	Total/NA
Toluene	0.53		0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.92		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.3		1.0	0.20	ug/L	1		8260B	Total/NA
Xylenes, Total	0.89	J	1.0	0.22	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene - DL	160		10	3.5	ug/L	10		8260B	Total/NA

Client Sample ID: MW-44D Dup — Lab Sample ID: 500-154060-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.9	J	2.0	0.78	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	91		2.0	0.70	ug/L	2		8260B	Total/NA
Trichloroethene	17		1.0	0.33	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1000		20	8.2	ug/L	20		8260B	Total/NA
Vinyl chloride - DL	480		20	4.1	ug/L	20		8260B	Total/NA

Client Sample ID: TB — Lab Sample ID: 500-154060-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

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: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-154060-1	MW-43D	Ground Water	10/29/18 14:16	10/31/18 09:40
500-154060-2	MW-44D	Ground Water	10/29/18 12:56	10/31/18 09:40
500-154060-3	MW-36D	Ground Water	10/29/18 11:56	10/31/18 09:40
500-154060-4	MW-46D	Ground Water	10/29/18 10:28	10/31/18 09:40
500-154060-5	MW-45D	Ground Water	10/29/18 11:39	10/31/18 09:40
500-154060-6	MW-40D	Ground Water	10/29/18 13:58	10/31/18 09:40
500-154060-7	MW-35D	Ground Water	10/29/18 13:04	10/31/18 09:40
500-154060-8	MW-44D Dup	Ground Water	10/29/18 12:56	10/31/18 09:40
500-154060-9	TB	Water	10/29/18 00:00	10/31/18 09:40

Client Sample ID: MW-43D
Date Collected: 10/29/18 14:16
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.5		10	3.5	ug/L			11/10/18 14:17	2
Benzene	<0.29		1.0	0.29	ug/L			11/10/18 14:17	2
Bromobenzene	<0.71		2.0	0.71	ug/L			11/10/18 14:17	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			11/10/18 14:17	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			11/10/18 14:17	2
Bromoform	<0.97		2.0	0.97	ug/L			11/10/18 14:17	2
Bromomethane	<1.6		4.0	1.6	ug/L			11/10/18 14:17	2
2-Butanone (MEK)	<4.2		10	4.2	ug/L			11/10/18 14:17	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			11/10/18 14:17	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			11/10/18 14:17	2
Chloroethane	<1.0	*	2.0	1.0	ug/L			11/10/18 14:17	2
Chloroform	<0.74		4.0	0.74	ug/L			11/10/18 14:17	2
Chloromethane	<0.64		2.0	0.64	ug/L			11/10/18 14:17	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			11/10/18 14:17	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			11/10/18 14:17	2
cis-1,2-Dichloroethene	<0.82		2.0	0.82	ug/L			11/10/18 14:17	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			11/10/18 14:17	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			11/10/18 14:17	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			11/10/18 14:17	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			11/10/18 14:17	2
Dibromomethane	<0.54		2.0	0.54	ug/L			11/10/18 14:17	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			11/10/18 14:17	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			11/10/18 14:17	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			11/10/18 14:17	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			11/10/18 14:17	2
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			11/10/18 14:17	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			11/10/18 14:17	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			11/10/18 14:17	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			11/10/18 14:17	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			11/10/18 14:17	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			11/10/18 14:17	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			11/10/18 14:17	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			11/10/18 14:17	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			11/10/18 14:17	2
2-Hexanone	<3.1		10	3.1	ug/L			11/10/18 14:17	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			11/10/18 14:17	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			11/10/18 14:17	2
Methylene Chloride	<3.3		10	3.3	ug/L			11/10/18 14:17	2
4-Methyl-2-pentanone (MIBK)	<4.3		10	4.3	ug/L			11/10/18 14:17	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			11/10/18 14:17	2
Naphthalene	<0.67		2.0	0.67	ug/L			11/10/18 14:17	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			11/10/18 14:17	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			11/10/18 14:17	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			11/10/18 14:17	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			11/10/18 14:17	2
Styrene	<0.77		2.0	0.77	ug/L			11/10/18 14:17	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			11/10/18 14:17	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			11/10/18 14:17	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			11/10/18 14:17	2

Client Sample ID: MW-43D
Date Collected: 10/29/18 14:16
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.74		2.0	0.74	ug/L			11/10/18 14:17	2
Tetrahydrofuran	<3.8		20	3.8	ug/L			11/10/18 14:17	2
Toluene	<0.30		1.0	0.30	ug/L			11/10/18 14:17	2
trans-1,2-Dichloroethene	<0.70		2.0	0.70	ug/L			11/10/18 14:17	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			11/10/18 14:17	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			11/10/18 14:17	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			11/10/18 14:17	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			11/10/18 14:17	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			11/10/18 14:17	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			11/10/18 14:17	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			11/10/18 14:17	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			11/10/18 14:17	2
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			11/10/18 14:17	2
Vinyl chloride	<0.41		2.0	0.41	ug/L			11/10/18 14:17	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			11/10/18 14:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/10/18 14:17*	*2*
Dibromofluoromethane	*95*		*75 - 120*		*11/10/18 14:17*	*2*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*11/10/18 14:17*	*2*
Toluene-d8 (Surr)	*97*		*75 - 120*		*11/10/18 14:17*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**880**		10	3.3	ug/L			11/09/18 15:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/09/18 15:00*	*20*
Dibromofluoromethane	*93*		*75 - 120*		*11/09/18 15:00*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 15:00*	*20*
Toluene-d8 (Surr)	*96*		*75 - 120*		*11/09/18 15:00*	*20*

Client Sample ID: MW-44D
Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.3**	**J**	10	3.5	ug/L			11/09/18 15:51	2
Benzene	**0.32**	**J**	1.0	0.29	ug/L			11/09/18 15:51	2
Bromobenzene	<0.71		2.0	0.71	ug/L			11/09/18 15:51	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			11/09/18 15:51	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			11/09/18 15:51	2
Bromoform	<0.97		2.0	0.97	ug/L			11/09/18 15:51	2
Bromomethane	<1.6		4.0	1.6	ug/L			11/09/18 15:51	2
2-Butanone (MEK)	<4.2		10	4.2	ug/L			11/09/18 15:51	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			11/09/18 15:51	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			11/09/18 15:51	2
Chloroethane	**1.6**	**J**	2.0	1.0	ug/L			11/09/18 15:51	2
Chloroform	<0.74		4.0	0.74	ug/L			11/09/18 15:51	2

Client Sample ID: MW-44D
Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.64		2.0	0.64	ug/L			11/09/18 15:51	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			11/09/18 15:51	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			11/09/18 15:51	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			11/09/18 15:51	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			11/09/18 15:51	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			11/09/18 15:51	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			11/09/18 15:51	2
Dibromomethane	<0.54		2.0	0.54	ug/L			11/09/18 15:51	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			11/09/18 15:51	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			11/09/18 15:51	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			11/09/18 15:51	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			11/09/18 15:51	2
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			11/09/18 15:51	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			11/09/18 15:51	2
1,1-Dichloroethene	**2.3**		2.0	0.78	ug/L			11/09/18 15:51	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			11/09/18 15:51	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			11/09/18 15:51	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			11/09/18 15:51	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			11/09/18 15:51	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			11/09/18 15:51	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			11/09/18 15:51	2
2-Hexanone	<3.1		10	3.1	ug/L			11/09/18 15:51	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			11/09/18 15:51	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			11/09/18 15:51	2
Methylene Chloride	**4.2**	**J**	10	3.3	ug/L			11/09/18 15:51	2
4-Methyl-2-pentanone (MIBK)	<4.3		10	4.3	ug/L			11/09/18 15:51	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			11/09/18 15:51	2
Naphthalene	<0.67		2.0	0.67	ug/L			11/09/18 15:51	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			11/09/18 15:51	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			11/09/18 15:51	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			11/09/18 15:51	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			11/09/18 15:51	2
Styrene	<0.77		2.0	0.77	ug/L			11/09/18 15:51	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			11/09/18 15:51	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			11/09/18 15:51	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			11/09/18 15:51	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			11/09/18 15:51	2
Tetrahydrofuran	<3.8		20	3.8	ug/L			11/09/18 15:51	2
Toluene	<0.30		1.0	0.30	ug/L			11/09/18 15:51	2
trans-1,2-Dichloroethene	**94**		2.0	0.70	ug/L			11/09/18 15:51	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			11/09/18 15:51	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			11/09/18 15:51	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			11/09/18 15:51	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			11/09/18 15:51	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			11/09/18 15:51	2
Trichloroethene	**16**		1.0	0.33	ug/L			11/09/18 15:51	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			11/09/18 15:51	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			11/09/18 15:51	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			11/09/18 15:51	2

Client Sample ID: MW-44D

Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			11/09/18 15:51	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			11/09/18 15:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/09/18 15:51*	*2*
Dibromofluoromethane	*95*		*75 - 120*		*11/09/18 15:51*	*2*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/09/18 15:51*	*2*
Toluene-d8 (Surr)	*95*		*75 - 120*		*11/09/18 15:51*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1100**		20	8.2	ug/L			11/09/18 15:26	20
Vinyl chloride	**450**		20	4.1	ug/L			11/09/18 15:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/09/18 15:26*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*11/09/18 15:26*	*20*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 15:26*	*20*
Toluene-d8 (Surr)	*96*		*75 - 120*		*11/09/18 15:26*	*20*

Client Sample ID: MW-36D

Date Collected: 10/29/18 11:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.1**	**J**	5.0	1.7	ug/L			11/09/18 16:17	1
Benzene	<0.15		0.50	0.15	ug/L			11/09/18 16:17	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 16:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 16:17	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 16:17	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 16:17	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 16:17	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 16:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 16:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
Chloroethane	**0.51**	**J**	1.0	0.51	ug/L			11/09/18 16:17	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 16:17	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 16:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 16:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 16:17	1
cis-1,2-Dichloroethene	**81**		1.0	0.41	ug/L			11/09/18 16:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 16:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 16:17	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 16:17	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 16:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 16:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 16:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 16:17	1

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: MW-36D
Date Collected: 10/29/18 11:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 16:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 16:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 16:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 16:17	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 16:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 16:17	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 16:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 16:17	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 16:17	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 16:17	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 16:17	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 16:17	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 16:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 16:17	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 16:17	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 16:17	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 16:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 16:17	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 16:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 16:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 16:17	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/09/18 16:17	1
Toluene	<0.15		0.50	0.15	ug/L			11/09/18 16:17	1
trans-1,2-Dichloroethene	**24**		1.0	0.35	ug/L			11/09/18 16:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 16:17	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 16:17	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 16:17	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 16:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 16:17	1
Trichloroethene	**32**		0.50	0.16	ug/L			11/09/18 16:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 16:17	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 16:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 16:17	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 16:17	1
Vinyl chloride	**17**		1.0	0.20	ug/L			11/09/18 16:17	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/09/18 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/09/18 16:17*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*11/09/18 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 16:17*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*11/09/18 16:17*	*1*

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: MW-46D
Date Collected: 10/29/18 10:28
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/09/18 16:42	1
Benzene	<0.15		0.50	0.15	ug/L			11/09/18 16:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 16:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 16:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 16:42	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 16:42	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 16:42	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 16:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 16:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/09/18 16:42	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 16:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 16:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 16:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 16:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/09/18 16:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 16:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 16:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 16:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 16:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 16:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 16:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 16:42	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 16:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 16:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 16:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 16:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 16:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 16:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 16:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 16:42	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 16:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 16:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 16:42	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 16:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 16:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 16:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 16:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 16:42	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 16:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 16:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 16:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 16:42	1

Client Sample ID: MW-46D

Date Collected: 10/29/18 10:28
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 16:42	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/09/18 16:42	1
Toluene	<0.15		0.50	0.15	ug/L			11/09/18 16:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/09/18 16:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 16:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 16:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 16:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 16:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 16:42	1
Trichloroethene	**0.30**	**J**	0.50	0.16	ug/L			11/09/18 16:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 16:42	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 16:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 16:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 16:42	1
Vinyl chloride	**0.30**	**J**	1.0	0.20	ug/L			11/09/18 16:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/09/18 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/09/18 16:42*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*11/09/18 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 16:42*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*11/09/18 16:42*	*1*

Client Sample ID: MW-45D

Date Collected: 10/29/18 11:39
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/09/18 17:08	1
Benzene	<0.15		0.50	0.15	ug/L			11/09/18 17:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 17:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 17:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 17:08	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 17:08	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 17:08	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 17:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 17:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/09/18 17:08	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 17:08	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 17:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 17:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 17:08	1
cis-1,2-Dichloroethene	**38**		1.0	0.41	ug/L			11/09/18 17:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 17:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 17:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 17:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 17:08	1

Client Sample ID: MW-45D
Date Collected: 10/29/18 11:39
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 17:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 17:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 17:08	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 17:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 17:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 17:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 17:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 17:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 17:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 17:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 17:08	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 17:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 17:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 17:08	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 17:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 17:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 17:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 17:08	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 17:08	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 17:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 17:08	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 17:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 17:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 17:08	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/09/18 17:08	1
Toluene	<0.15		0.50	0.15	ug/L			11/09/18 17:08	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.35	ug/L			11/09/18 17:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 17:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 17:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 17:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 17:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 17:08	1
Trichloroethene	**36**		0.50	0.16	ug/L			11/09/18 17:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 17:08	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 17:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 17:08	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 17:08	1
Vinyl chloride	**1.4**		1.0	0.20	ug/L			11/09/18 17:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/09/18 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/09/18 17:08*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*11/09/18 17:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/09/18 17:08*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*11/09/18 17:08*	*1*

Client Sample ID: MW-40D

Date Collected: 10/29/18 13:58
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<8.7		25	8.7	ug/L			11/09/18 17:34	5
Benzene	<0.73		2.5	0.73	ug/L			11/09/18 17:34	5
Bromobenzene	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
Bromoform	<2.4		5.0	2.4	ug/L			11/09/18 17:34	5
Bromomethane	<4.0		10	4.0	ug/L			11/09/18 17:34	5
2-Butanone (MEK)	<11		25	11	ug/L			11/09/18 17:34	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
Chloroethane	**4.5**	**J**	5.0	2.5	ug/L			11/09/18 17:34	5
Chloroform	<1.9		10	1.9	ug/L			11/09/18 17:34	5
Chloromethane	<1.6		5.0	1.6	ug/L			11/09/18 17:34	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			11/09/18 17:34	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			11/09/18 17:34	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			11/09/18 17:34	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			11/09/18 17:34	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
Dibromomethane	<1.4		5.0	1.4	ug/L			11/09/18 17:34	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			11/09/18 17:34	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
Dichlorodifluoromethane	<3.4		10	3.4	ug/L			11/09/18 17:34	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			11/09/18 17:34	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			11/09/18 17:34	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			11/09/18 17:34	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			11/09/18 17:34	5
2-Hexanone	<7.8		25	7.8	ug/L			11/09/18 17:34	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			11/09/18 17:34	5
Methylene Chloride	<8.2		25	8.2	ug/L			11/09/18 17:34	5
4-Methyl-2-pentanone (MIBK)	<11		25	11	ug/L			11/09/18 17:34	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
Naphthalene	<1.7		5.0	1.7	ug/L			11/09/18 17:34	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
Styrene	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			11/09/18 17:34	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			11/09/18 17:34	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5

Client Sample ID: MW-40D

Date Collected: 10/29/18 13:58
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	**13**	**J**	50	9.4	ug/L			11/09/18 17:34	5
Toluene	**0.87**	**J**	2.5	0.76	ug/L			11/09/18 17:34	5
trans-1,2-Dichloroethene	**70**		5.0	1.7	ug/L			11/09/18 17:34	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			11/09/18 17:34	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			11/09/18 17:34	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			11/09/18 17:34	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			11/09/18 17:34	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			11/09/18 17:34	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			11/09/18 17:34	5
Vinyl chloride	**210**		5.0	1.0	ug/L			11/09/18 17:34	5
Xylenes, Total	**1.1**	**J**	5.0	1.1	ug/L			11/09/18 17:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/09/18 17:34*	*5*
Dibromofluoromethane	*95*		*75 - 120*		*11/09/18 17:34*	*5*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 17:34*	*5*
Toluene-d8 (Surr)	*97*		*75 - 120*		*11/09/18 17:34*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2400**		50	20	ug/L			11/09/18 17:59	50
Trichloroethene	**1500**		25	8.2	ug/L			11/09/18 17:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/09/18 17:59*	*50*
Dibromofluoromethane	*94*		*75 - 120*		*11/09/18 17:59*	*50*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 17:59*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*		*11/09/18 17:59*	*50*

Client Sample ID: MW-35D

Date Collected: 10/29/18 13:04
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**15**		5.0	1.7	ug/L			11/09/18 18:25	1
Benzene	**0.29**	**J**	0.50	0.15	ug/L			11/09/18 18:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 18:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 18:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 18:25	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 18:25	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 18:25	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 18:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 18:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
Chloroethane	**6.9**		1.0	0.51	ug/L			11/09/18 18:25	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 18:25	1

Client Sample ID: MW-35D
Date Collected: 10/29/18 13:04
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 18:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 18:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 18:25	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.41	ug/L			11/09/18 18:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 18:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 18:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 18:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 18:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 18:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 18:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 18:25	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 18:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 18:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 18:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 18:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 18:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 18:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 18:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 18:25	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 18:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 18:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 18:25	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 18:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 18:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 18:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 18:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 18:25	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 18:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 18:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 18:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 18:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 18:25	1
Tetrahydrofuran	**26**		10	1.9	ug/L			11/09/18 18:25	1
Toluene	**0.53**		0.50	0.15	ug/L			11/09/18 18:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 18:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 18:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 18:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 18:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 18:25	1
Trichloroethene	**0.92**		0.50	0.16	ug/L			11/09/18 18:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 18:25	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 18:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 18:25	1

Client Sample ID: MW-35D

Date Collected: 10/29/18 13:04
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 18:25	1
Vinyl chloride	**1.3**		1.0	0.20	ug/L			11/09/18 18:25	1
Xylenes, Total	**0.89**	**J**	1.0	0.22	ug/L			11/09/18 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/09/18 18:25*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/09/18 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/09/18 18:25*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*11/09/18 18:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**160**		10	3.5	ug/L			11/10/18 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/10/18 14:43*	*10*
Dibromofluoromethane	*99*		*75 - 120*		*11/10/18 14:43*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*		*11/10/18 14:43*	*10*
Toluene-d8 (Surr)	*98*		*75 - 120*		*11/10/18 14:43*	*10*

Client Sample ID: MW-44D Dup

Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.5		10	3.5	ug/L			11/09/18 18:02	2
Benzene	<0.29		1.0	0.29	ug/L			11/09/18 18:02	2
Bromobenzene	<0.71		2.0	0.71	ug/L			11/09/18 18:02	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			11/09/18 18:02	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			11/09/18 18:02	2
Bromoform	<0.97		2.0	0.97	ug/L			11/09/18 18:02	2
Bromomethane	<1.6		4.0	1.6	ug/L			11/09/18 18:02	2
2-Butanone (MEK)	<4.2		10	4.2	ug/L			11/09/18 18:02	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			11/09/18 18:02	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			11/09/18 18:02	2
Chloroethane	<1.0		2.0	1.0	ug/L			11/09/18 18:02	2
Chloroform	<0.74		4.0	0.74	ug/L			11/09/18 18:02	2
Chloromethane	<0.64		2.0	0.64	ug/L			11/09/18 18:02	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			11/09/18 18:02	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			11/09/18 18:02	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			11/09/18 18:02	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			11/09/18 18:02	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			11/09/18 18:02	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			11/09/18 18:02	2
Dibromomethane	<0.54		2.0	0.54	ug/L			11/09/18 18:02	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			11/09/18 18:02	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			11/09/18 18:02	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			11/09/18 18:02	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			11/09/18 18:02	2

Client Sample ID: MW-44D Dup
Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			11/09/18 18:02	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			11/09/18 18:02	2
1,1-Dichloroethene	**1.9**	**J**	2.0	0.78	ug/L			11/09/18 18:02	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			11/09/18 18:02	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			11/09/18 18:02	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			11/09/18 18:02	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			11/09/18 18:02	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			11/09/18 18:02	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			11/09/18 18:02	2
2-Hexanone	<3.1		10	3.1	ug/L			11/09/18 18:02	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			11/09/18 18:02	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			11/09/18 18:02	2
Methylene Chloride	<3.3		10	3.3	ug/L			11/09/18 18:02	2
4-Methyl-2-pentanone (MIBK)	<4.3		10	4.3	ug/L			11/09/18 18:02	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			11/09/18 18:02	2
Naphthalene	<0.67		2.0	0.67	ug/L			11/09/18 18:02	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			11/09/18 18:02	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			11/09/18 18:02	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			11/09/18 18:02	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			11/09/18 18:02	2
Styrene	<0.77		2.0	0.77	ug/L			11/09/18 18:02	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			11/09/18 18:02	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			11/09/18 18:02	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			11/09/18 18:02	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			11/09/18 18:02	2
Tetrahydrofuran	<3.8		20	3.8	ug/L			11/09/18 18:02	2
Toluene	<0.30		1.0	0.30	ug/L			11/09/18 18:02	2
trans-1,2-Dichloroethene	**91**		2.0	0.70	ug/L			11/09/18 18:02	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			11/09/18 18:02	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			11/09/18 18:02	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			11/09/18 18:02	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			11/09/18 18:02	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			11/09/18 18:02	2
Trichloroethene	**17**		1.0	0.33	ug/L			11/09/18 18:02	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			11/09/18 18:02	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			11/09/18 18:02	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			11/09/18 18:02	2
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			11/09/18 18:02	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			11/09/18 18:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*		*11/09/18 18:02*	*2*
Dibromofluoromethane	*94*		*75 - 120*		*11/09/18 18:02*	*2*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*11/09/18 18:02*	*2*
Toluene-d8 (Surr)	*85*		*75 - 120*		*11/09/18 18:02*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1000**		20	8.2	ug/L			11/09/18 18:29	20
Vinyl chloride	**480**		20	4.1	ug/L			11/09/18 18:29	20

Client Sample ID: MW-44D Dup

Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-8
Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*		*11/09/18 18:29*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*11/09/18 18:29*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/09/18 18:29*	*20*
Toluene-d8 (Surr)	*87*		*75 - 120*		*11/09/18 18:29*	*20*

Client Sample ID: TB

Date Collected: 10/29/18 00:00
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/09/18 21:31	1
Benzene	<0.15		0.50	0.15	ug/L			11/09/18 21:31	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 21:31	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 21:31	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 21:31	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 21:31	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 21:31	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 21:31	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 21:31	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/09/18 21:31	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 21:31	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 21:31	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 21:31	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 21:31	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/09/18 21:31	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 21:31	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 21:31	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 21:31	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 21:31	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 21:31	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 21:31	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 21:31	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 21:31	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 21:31	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 21:31	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 21:31	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 21:31	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 21:31	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 21:31	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 21:31	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 21:31	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 21:31	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 21:31	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 21:31	1

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: TB
Date Collected: 10/29/18 00:00
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-9
Matrix: Water

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			11/09/18 21:31	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 21:31	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 21:31	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 21:31	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 21:31	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 21:31	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 21:31	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 21:31	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 21:31	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 21:31	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/09/18 21:31	1
Toluene	<0.15		0.50	0.15	ug/L			11/09/18 21:31	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/09/18 21:31	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 21:31	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 21:31	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 21:31	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 21:31	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 21:31	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/09/18 21:31	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 21:31	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 21:31	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 21:31	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 21:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/09/18 21:31	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/09/18 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*72 - 124*		*11/09/18 21:31*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*11/09/18 21:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*11/09/18 21:31*	*1*
Toluene-d8 (Surr)	*86*		*75 - 120*		*11/09/18 21:31*	*1*

Definitions/Glossary

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

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

GC/MS VOA

Analysis Batch: 459261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154060-1 - DL	MW-43D	Total/NA	Ground Water	8260B	
500-154060-2 - DL	MW-44D	Total/NA	Ground Water	8260B	
500-154060-2	MW-44D	Total/NA	Ground Water	8260B	
500-154060-3	MW-36D	Total/NA	Ground Water	8260B	
500-154060-4	MW-46D	Total/NA	Ground Water	8260B	
500-154060-5	MW-45D	Total/NA	Ground Water	8260B	
500-154060-6	MW-40D	Total/NA	Ground Water	8260B	
500-154060-6 - DL	MW-40D	Total/NA	Ground Water	8260B	
500-154060-7	MW-35D	Total/NA	Ground Water	8260B	
MB 500-459261/8	Method Blank	Total/NA	Water	8260B	
LCS 500-459261/6	Lab Control Sample	Total/NA	Water	8260B	
500-154060-7 MS	MW-35D	Total/NA	Ground Water	8260B	
500-154060-7 MSD	MW-35D	Total/NA	Ground Water	8260B	

Analysis Batch: 459325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154060-8	MW-44D Dup	Total/NA	Ground Water	8260B	
500-154060-8 - DL	MW-44D Dup	Total/NA	Ground Water	8260B	
500-154060-9	TB	Total/NA	Water	8260B	
MB 500-459325/6	Method Blank	Total/NA	Water	8260B	
LCS 500-459325/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 459486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154060-1	MW-43D	Total/NA	Ground Water	8260B	
500-154060-7 - DL	MW-35D	Total/NA	Ground Water	8260B	
MB 500-459486/7	Method Blank	Total/NA	Water	8260B	
LCS 500-459486/5	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

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

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-154060-1 - DL	MW-43D	92	93	89	96
500-154060-1	MW-43D	100	95	104	97
500-154060-2 - DL	MW-44D	94	92	89	96
500-154060-2	MW-44D	92	95	90	95
500-154060-3	MW-36D	92	96	89	96
500-154060-4	MW-46D	93	93	89	95
500-154060-5	MW-45D	92	96	90	95
500-154060-6	MW-40D	95	95	89	97
500-154060-6 - DL	MW-40D	93	94	89	96
500-154060-7	MW-35D	92	95	90	95
500-154060-7 - DL	MW-35D	96	99	110	98
500-154060-7 MS	MW-35D	91	97	91	95
500-154060-7 MSD	MW-35D	93	99	89	96
500-154060-8	MW-44D Dup	86	94	91	85
500-154060-8 - DL	MW-44D Dup	86	92	90	87

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-154060-9	TB	83	93	91	86
LCS 500-459261/6	Lab Control Sample	92	99	86	95
LCS 500-459325/4	Lab Control Sample	85	86	81	91
LCS 500-459486/5	Lab Control Sample	99	93	98	99
MB 500-459261/8	Method Blank	93	95	89	94
MB 500-459325/6	Method Blank	85	90	88	89
MB 500-459486/7	Method Blank	98	97	108	99

Surrogate Legend

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

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

Lab Sample ID: MB 500-459261/8
Matrix: Water
Analysis Batch: 459261

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/09/18 10:13	1
Benzene	<0.15		0.50	0.15	ug/L			11/09/18 10:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 10:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 10:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 10:13	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 10:13	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 10:13	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 10:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 10:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/09/18 10:13	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 10:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 10:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 10:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 10:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/09/18 10:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 10:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 10:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 10:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 10:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 10:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 10:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 10:13	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 10:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 10:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 10:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 10:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 10:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 10:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 10:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 10:13	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 10:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 10:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 10:13	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 10:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 10:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 10:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 10:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 10:13	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 10:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 10:13	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 10:13	1

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

Lab Sample ID: MB 500-459261/8
Matrix: Water
Analysis Batch: 459261

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 10:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 10:13	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/09/18 10:13	1
Toluene	<0.15		0.50	0.15	ug/L			11/09/18 10:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/09/18 10:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 10:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 10:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 10:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 10:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 10:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/09/18 10:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 10:13	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 10:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 10:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 10:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/09/18 10:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/09/18 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/09/18 10:13*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/09/18 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*11/09/18 10:13*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/09/18 10:13*	*1*

Lab Sample ID: LCS 500-459261/6
Matrix: Water
Analysis Batch: 459261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	43.4		ug/L		87	40 - 143
Benzene	50.0	47.3		ug/L		95	70 - 120
Bromobenzene	50.0	50.3		ug/L		101	70 - 122
Bromochloromethane	50.0	49.8		ug/L		100	65 - 122
Bromodichloromethane	50.0	48.1		ug/L		96	69 - 120
Bromoform	50.0	49.2		ug/L		98	56 - 132
Bromomethane	50.0	46.1		ug/L		92	40 - 152
2-Butanone (MEK)	50.0	43.0		ug/L		86	46 - 144
Carbon tetrachloride	50.0	52.4		ug/L		105	59 - 133
Chlorobenzene	50.0	48.3		ug/L		97	70 - 120
Chloroethane	50.0	49.9		ug/L		100	48 - 136
Chloroform	50.0	51.4		ug/L		103	70 - 120
Chloromethane	50.0	49.3		ug/L		99	56 - 152
2-Chlorotoluene	50.0	47.6		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.7		ug/L		95	68 - 124
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 125
cis-1,3-Dichloropropene	50.0	43.3		ug/L		87	64 - 127
Dibromochloromethane	50.0	46.6		ug/L		93	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.5		ug/L		79	56 - 123

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

Lab Sample ID: LCS 500-459261/6
Matrix: Water
Analysis Batch: 459261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	50.0	49.1		ug/L		98	70 - 125
Dibromomethane	50.0	45.5		ug/L		91	70 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,3-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 120
Dichlorodifluoromethane	50.0	58.2		ug/L		116	40 - 159
1,1-Dichloroethane	50.0	45.0		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	46.1		ug/L		92	68 - 127
1,1-Dichloroethene	50.0	51.2		ug/L		102	67 - 122
1,2-Dichloropropane	50.0	43.3		ug/L		87	67 - 130
1,3-Dichloropropane	50.0	43.5		ug/L		87	62 - 136
2,2-Dichloropropane	50.0	47.2		ug/L		94	58 - 139
1,1-Dichloropropene	50.0	48.5		ug/L		97	70 - 121
Ethylbenzene	50.0	46.0		ug/L		92	70 - 123
Hexachlorobutadiene	50.0	52.5		ug/L		105	51 - 150
2-Hexanone	50.0	39.4		ug/L		79	54 - 146
Isopropylbenzene	50.0	48.9		ug/L		98	70 - 126
Methylene Chloride	50.0	51.1		ug/L		102	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	42.4		ug/L		85	55 - 139
Methyl tert-butyl ether	50.0	41.2		ug/L		82	55 - 123
Naphthalene	50.0	47.8		ug/L		96	53 - 144
n-Butylbenzene	50.0	50.6		ug/L		101	68 - 125
N-Propylbenzene	50.0	49.5		ug/L		99	69 - 127
p-Isopropyltoluene	50.0	50.8		ug/L		102	70 - 125
sec-Butylbenzene	50.0	49.1		ug/L		98	70 - 123
Styrene	50.0	45.3		ug/L		91	70 - 120
tert-Butylbenzene	50.0	50.0		ug/L		100	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/L		100	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/L		91	62 - 140
Tetrachloroethene	50.0	51.0		ug/L		102	70 - 128
Tetrahydrofuran	100	84.8		ug/L		85	59 - 139
Toluene	50.0	46.2		ug/L		92	70 - 125
trans-1,2-Dichloroethene	50.0	51.3		ug/L		103	70 - 125
trans-1,3-Dichloropropene	50.0	42.3		ug/L		85	62 - 128
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	51 - 145
1,2,4-Trichlorobenzene	50.0	50.9		ug/L		102	57 - 137
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	70 - 125
1,1,2-Trichloroethane	50.0	46.0		ug/L		92	71 - 130
Trichloroethene	50.0	51.7		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	57.3		ug/L		115	55 - 128
1,2,3-Trichloropropane	50.0	46.8		ug/L		94	50 - 133
1,2,4-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	70 - 123
Vinyl chloride	50.0	51.3		ug/L		103	64 - 126
Xylenes, Total	100	94.0		ug/L		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*

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

Lab Sample ID: LCS 500-459261/6
Matrix: Water
Analysis Batch: 459261

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: 500-154060-7 MS
Matrix: Ground Water
Analysis Batch: 459261

Client Sample ID: MW-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	15		50.0	65.5		ug/L		101	40 - 143
Benzene	0.29	J	50.0	47.7		ug/L		95	70 - 120
Bromobenzene	<0.36		50.0	53.5		ug/L		107	70 - 122
Bromochloromethane	<0.43		50.0	51.1		ug/L		102	65 - 122
Bromodichloromethane	<0.37		50.0	49.3		ug/L		99	69 - 120
Bromoform	<0.48		50.0	49.3		ug/L		99	56 - 132
Bromomethane	<0.80		50.0	47.5		ug/L		95	40 - 152
2-Butanone (MEK)	<2.1		50.0	48.2		ug/L		96	46 - 144
Carbon tetrachloride	<0.38		50.0	51.8		ug/L		104	59 - 133
Chlorobenzene	<0.39		50.0	49.4		ug/L		99	70 - 120
Chloroethane	6.9		50.0	61.7		ug/L		110	48 - 136
Chloroform	<0.37		50.0	51.6		ug/L		103	70 - 120
Chloromethane	<0.32		50.0	61.4		ug/L		123	56 - 152
2-Chlorotoluene	<0.31		50.0	48.1		ug/L		96	70 - 125
4-Chlorotoluene	<0.35		50.0	48.0		ug/L		96	68 - 124
cis-1,2-Dichloroethene	2.0		50.0	52.9		ug/L		102	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	45.1		ug/L		90	64 - 127
Dibromochloromethane	<0.49		50.0	50.2		ug/L		100	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0		50.0	38.5		ug/L		77	56 - 123
1,2-Dibromoethane	<0.39		50.0	50.6		ug/L		101	70 - 125
Dibromomethane	<0.27		50.0	48.7		ug/L		97	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	49.7		ug/L		99	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	50.2		ug/L		100	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	49.2		ug/L		98	70 - 120
Dichlorodifluoromethane	<0.67		50.0	64.6		ug/L		129	40 - 159
1,1-Dichloroethane	<0.41		50.0	45.9		ug/L		92	70 - 125
1,2-Dichloroethane	<0.39		50.0	47.8		ug/L		96	68 - 127
1,1-Dichloroethene	<0.39		50.0	52.7		ug/L		105	67 - 122
1,2-Dichloropropane	<0.43		50.0	44.6		ug/L		89	67 - 130
1,3-Dichloropropane	<0.36		50.0	45.9		ug/L		92	62 - 136
2,2-Dichloropropane	<0.44		50.0	46.6		ug/L		93	58 - 139
1,1-Dichloropropene	<0.30		50.0	47.4		ug/L		95	70 - 121
Ethylbenzene	<0.18		50.0	47.3		ug/L		95	70 - 123
Hexachlorobutadiene	<0.45		50.0	51.8		ug/L		104	51 - 150
2-Hexanone	<1.6		50.0	42.1		ug/L		84	54 - 146
Isopropylbenzene	<0.39		50.0	48.8		ug/L		98	70 - 126
Methylene Chloride	<1.6		50.0	53.5		ug/L		107	69 - 125
4-Methyl-2-pentanone (MIBK)	<2.2		50.0	45.8		ug/L		92	55 - 139
Methyl tert-butyl ether	<0.39		50.0	44.7		ug/L		89	55 - 123

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

Lab Sample ID: 500-154060-7 MS
Matrix: Ground Water
Analysis Batch: 459261

Client Sample ID: MW-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	<0.34		50.0	46.2		ug/L		92	53 - 144
n-Butylbenzene	<0.39		50.0	48.8		ug/L		98	68 - 125
N-Propylbenzene	<0.41		50.0	49.4		ug/L		99	69 - 127
p-Isopropyltoluene	<0.36		50.0	50.3		ug/L		101	70 - 125
sec-Butylbenzene	<0.40		50.0	49.3		ug/L		99	70 - 123
Styrene	<0.39		50.0	45.8		ug/L		92	70 - 120
tert-Butylbenzene	<0.40		50.0	50.7		ug/L		101	70 - 121
1,1,1,2-Tetrachloroethane	<0.46		50.0	51.8		ug/L		104	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	47.4		ug/L		95	62 - 140
Tetrachloroethene	<0.37		50.0	50.3		ug/L		101	70 - 128
Tetrahydrofuran	26		100	115		ug/L		89	59 - 139
Toluene	0.53		50.0	47.0		ug/L		93	70 - 125
trans-1,2-Dichloroethene	230	E	50.0	280	E 4	ug/L		92	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	44.3		ug/L		89	62 - 128
1,2,3-Trichlorobenzene	<0.46		50.0	48.1		ug/L		96	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	48.3		ug/L		97	57 - 137
1,1,1-Trichloroethane	<0.38		50.0	52.2		ug/L		104	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	48.9		ug/L		98	71 - 130
Trichloroethene	0.92		50.0	51.7		ug/L		102	70 - 125
Trichlorofluoromethane	<0.43		50.0	61.9		ug/L		124	55 - 128
1,2,3-Trichloropropane	<0.41		50.0	49.6		ug/L		99	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	47.9		ug/L		96	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	48.4		ug/L		97	70 - 123
Vinyl chloride	1.3		50.0	63.2		ug/L		124	64 - 126
Xylenes, Total	0.89	J	100	96.2		ug/L		95	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: 500-154060-7 MSD
Matrix: Ground Water
Analysis Batch: 459261

Client Sample ID: MW-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	15		50.0	59.8		ug/L		90	40 - 143	9	20
Benzene	0.29	J	50.0	50.1		ug/L		100	70 - 120	5	20
Bromobenzene	<0.36		50.0	54.7		ug/L		109	70 - 122	2	20
Bromochloromethane	<0.43		50.0	54.9		ug/L		110	65 - 122	7	20
Bromodichloromethane	<0.37		50.0	52.6		ug/L		105	69 - 120	6	20
Bromoform	<0.48		50.0	51.8		ug/L		104	56 - 132	5	20
Bromomethane	<0.80		50.0	45.7		ug/L		91	40 - 152	4	20
2-Butanone (MEK)	<2.1		50.0	46.8		ug/L		94	46 - 144	3	20
Carbon tetrachloride	<0.38		50.0	55.6		ug/L		111	59 - 133	7	20
Chlorobenzene	<0.39		50.0	51.2		ug/L		102	70 - 120	4	20
Chloroethane	6.9		50.0	62.0		ug/L		110	48 - 136	0	20

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

Lab Sample ID: 500-154060-7 MSD
Matrix: Ground Water
Analysis Batch: 459261

Client Sample ID: MW-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	<0.37		50.0	54.9		ug/L		110	70 - 120	6	20
Chloromethane	<0.32		50.0	58.6		ug/L		117	56 - 152	5	20
2-Chlorotoluene	<0.31		50.0	49.5		ug/L		99	70 - 125	3	20
4-Chlorotoluene	<0.35		50.0	49.8		ug/L		100	68 - 124	4	20
cis-1,2-Dichloroethene	2.0		50.0	55.6		ug/L		107	70 - 125	5	20
cis-1,3-Dichloropropene	<0.42		50.0	46.9		ug/L		94	64 - 127	4	20
Dibromochloromethane	<0.49		50.0	52.7		ug/L		105	68 - 125	5	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	45.3		ug/L		91	56 - 123	16	20
1,2-Dibromoethane	<0.39		50.0	53.1		ug/L		106	70 - 125	5	20
Dibromomethane	<0.27		50.0	51.5		ug/L		103	70 - 120	6	20
1,2-Dichlorobenzene	<0.33		50.0	52.0		ug/L		104	70 - 125	5	20
1,3-Dichlorobenzene	<0.40		50.0	53.2		ug/L		106	70 - 125	6	20
1,4-Dichlorobenzene	<0.36		50.0	51.6		ug/L		103	70 - 120	5	20
Dichlorodifluoromethane	<0.67		50.0	61.2		ug/L		122	40 - 159	6	20
1,1-Dichloroethane	<0.41		50.0	49.5		ug/L		99	70 - 125	7	20
1,2-Dichloroethane	<0.39		50.0	51.6		ug/L		103	68 - 127	8	20
1,1-Dichloroethene	<0.39		50.0	56.3		ug/L		113	67 - 122	7	20
1,2-Dichloropropane	<0.43		50.0	47.0		ug/L		94	67 - 130	5	20
1,3-Dichloropropane	<0.36		50.0	48.2		ug/L		96	62 - 136	5	20
2,2-Dichloropropane	<0.44		50.0	47.4		ug/L		95	58 - 139	2	20
1,1-Dichloropropene	<0.30		50.0	50.1		ug/L		100	70 - 121	5	20
Ethylbenzene	<0.18		50.0	48.6		ug/L		97	70 - 123	3	20
Hexachlorobutadiene	<0.45		50.0	54.0		ug/L		108	51 - 150	4	20
2-Hexanone	<1.6		50.0	43.5		ug/L		87	54 - 146	3	20
Isopropylbenzene	<0.39		50.0	51.2		ug/L		102	70 - 126	5	20
Methylene Chloride	<1.6		50.0	56.9		ug/L		114	69 - 125	6	20
4-Methyl-2-pentanone (MIBK)	<2.2		50.0	46.4		ug/L		93	55 - 139	1	20
Methyl tert-butyl ether	<0.39		50.0	47.4		ug/L		95	55 - 123	6	20
Naphthalene	<0.34		50.0	53.0		ug/L		106	53 - 144	14	20
n-Butylbenzene	<0.39		50.0	50.6		ug/L		101	68 - 125	4	20
N-Propylbenzene	<0.41		50.0	51.0		ug/L		102	69 - 127	3	20
p-Isopropyltoluene	<0.36		50.0	52.7		ug/L		105	70 - 125	5	20
sec-Butylbenzene	<0.40		50.0	51.2		ug/L		102	70 - 123	4	20
Styrene	<0.39		50.0	47.5		ug/L		95	70 - 120	4	20
tert-Butylbenzene	<0.40		50.0	53.3		ug/L		107	70 - 121	5	20
1,1,1,2-Tetrachloroethane	<0.46		50.0	53.7		ug/L		107	70 - 125	4	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	49.1		ug/L		98	62 - 140	4	20
Tetrachloroethene	<0.37		50.0	52.9		ug/L		106	70 - 128	5	20
Tetrahydrofuran	26		100	120		ug/L		94	59 - 139	4	20
Toluene	0.53		50.0	49.1		ug/L		97	70 - 125	4	20
trans-1,2-Dichloroethene	230	E	50.0	278	E 4	ug/L		88	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	46.7		ug/L		93	62 - 128	5	20
1,2,3-Trichlorobenzene	<0.46		50.0	55.1		ug/L		110	51 - 145	14	20
1,2,4-Trichlorobenzene	<0.34		50.0	52.0		ug/L		104	57 - 137	7	20
1,1,1-Trichloroethane	<0.38		50.0	55.8		ug/L		112	70 - 125	7	20
1,1,2-Trichloroethane	<0.35		50.0	50.9		ug/L		102	71 - 130	4	20
Trichloroethene	0.92		50.0	55.3		ug/L		109	70 - 125	7	20
Trichlorofluoromethane	<0.43		50.0	60.2		ug/L		120	55 - 128	3	20

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

Lab Sample ID: 500-154060-7 MSD
Matrix: Ground Water
Analysis Batch: 459261

Client Sample ID: MW-35D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	<0.41		50.0	53.2		ug/L		106	50 - 133	7	20
1,2,4-Trimethylbenzene	<0.36		50.0	50.3		ug/L		101	70 - 123	5	20
1,3,5-Trimethylbenzene	<0.25		50.0	51.4		ug/L		103	70 - 123	6	20
Vinyl chloride	1.3		50.0	62.2		ug/L		122	64 - 126	2	20
Xylenes, Total	0.89	J	100	99.8		ug/L		99	70 - 125	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-459325/6
Matrix: Water
Analysis Batch: 459325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/09/18 12:24	1
Benzene	<0.15		0.50	0.15	ug/L			11/09/18 12:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/09/18 12:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/09/18 12:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/09/18 12:24	1
Bromoform	<0.48		1.0	0.48	ug/L			11/09/18 12:24	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/09/18 12:24	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/09/18 12:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/09/18 12:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/09/18 12:24	1
Chloroform	<0.37		2.0	0.37	ug/L			11/09/18 12:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/09/18 12:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/09/18 12:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/09/18 12:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/09/18 12:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/09/18 12:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/09/18 12:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/09/18 12:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/09/18 12:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/09/18 12:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/09/18 12:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/09/18 12:24	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/09/18 12:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/09/18 12:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/09/18 12:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/09/18 12:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/09/18 12:24	1

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

Lab Sample ID: MB 500-459325/6
Matrix: Water
Analysis Batch: 459325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/09/18 12:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/09/18 12:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/09/18 12:24	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/09/18 12:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/09/18 12:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/09/18 12:24	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/09/18 12:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/09/18 12:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/09/18 12:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/09/18 12:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 12:24	1
Styrene	<0.39		1.0	0.39	ug/L			11/09/18 12:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/09/18 12:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/09/18 12:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/09/18 12:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/09/18 12:24	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/09/18 12:24	1
Toluene	<0.15		0.50	0.15	ug/L			11/09/18 12:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/09/18 12:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/09/18 12:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/09/18 12:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/09/18 12:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/09/18 12:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/09/18 12:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/09/18 12:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/09/18 12:24	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/09/18 12:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/09/18 12:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/09/18 12:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/09/18 12:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/09/18 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*		*11/09/18 12:24*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*11/09/18 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*11/09/18 12:24*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*11/09/18 12:24*	*1*

Lab Sample ID: LCS 500-459325/4
Matrix: Water
Analysis Batch: 459325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	47.0		ug/L		94	40 - 143
Benzene	50.0	48.4		ug/L		97	70 - 120

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

Lab Sample ID: LCS 500-459325/4
Matrix: Water
Analysis Batch: 459325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	49.0		ug/L		98	70 - 122
Bromochloromethane	50.0	46.4		ug/L		93	65 - 122
Bromodichloromethane	50.0	47.2		ug/L		94	69 - 120
Bromoform	50.0	51.0		ug/L		102	56 - 132
Bromomethane	50.0	48.3		ug/L		97	40 - 152
2-Butanone (MEK)	50.0	54.3		ug/L		109	46 - 144
Carbon tetrachloride	50.0	60.1		ug/L		120	59 - 133
Chlorobenzene	50.0	45.3		ug/L		91	70 - 120
Chloroethane	50.0	58.1		ug/L		116	48 - 136
Chloroform	50.0	45.7		ug/L		91	70 - 120
Chloromethane	50.0	56.3		ug/L		113	56 - 152
2-Chlorotoluene	50.0	50.8		ug/L		102	70 - 125
4-Chlorotoluene	50.0	49.5		ug/L		99	68 - 124
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 125
cis-1,3-Dichloropropene	50.0	43.4		ug/L		87	64 - 127
Dibromochloromethane	50.0	48.9		ug/L		98	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.3		ug/L		87	56 - 123
1,2-Dibromoethane	50.0	42.6		ug/L		85	70 - 125
Dibromomethane	50.0	44.4		ug/L		89	70 - 120
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	70 - 125
1,3-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 125
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 120
Dichlorodifluoromethane	50.0	61.5		ug/L		123	40 - 159
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 125
1,2-Dichloroethane	50.0	43.4		ug/L		87	68 - 127
1,1-Dichloroethene	50.0	50.9		ug/L		102	67 - 122
1,2-Dichloropropane	50.0	48.5		ug/L		97	67 - 130
1,3-Dichloropropane	50.0	41.5		ug/L		83	62 - 136
2,2-Dichloropropane	50.0	46.4		ug/L		93	58 - 139
1,1-Dichloropropene	50.0	49.4		ug/L		99	70 - 121
Ethylbenzene	50.0	49.6		ug/L		99	70 - 123
Hexachlorobutadiene	50.0	49.3		ug/L		99	51 - 150
2-Hexanone	50.0	50.3		ug/L		101	54 - 146
Isopropylbenzene	50.0	53.3		ug/L		107	70 - 126
Methylene Chloride	50.0	44.8		ug/L		90	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	49.8		ug/L		100	55 - 139
Methyl tert-butyl ether	50.0	40.0		ug/L		80	55 - 123
Naphthalene	50.0	45.0		ug/L		90	53 - 144
n-Butylbenzene	50.0	55.0		ug/L		110	68 - 125
N-Propylbenzene	50.0	53.8		ug/L		108	69 - 127
p-Isopropyltoluene	50.0	51.1		ug/L		102	70 - 125
sec-Butylbenzene	50.0	54.2		ug/L		108	70 - 123
Styrene	50.0	47.1		ug/L		94	70 - 120
tert-Butylbenzene	50.0	50.0		ug/L		100	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/L		89	62 - 140
Tetrachloroethene	50.0	54.4		ug/L		109	70 - 128
Tetrahydrofuran	100	92.3		ug/L		92	59 - 139

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

Lab Sample ID: LCS 500-459325/4
Matrix: Water
Analysis Batch: 459325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	50.9		ug/L		102	70 - 125
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	70 - 125
trans-1,3-Dichloropropene	50.0	42.4		ug/L		85	62 - 128
1,2,3-Trichlorobenzene	50.0	45.1		ug/L		90	51 - 145
1,2,4-Trichlorobenzene	50.0	47.6		ug/L		95	57 - 137
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 125
1,1,2-Trichloroethane	50.0	43.2		ug/L		86	71 - 130
Trichloroethene	50.0	52.5		ug/L		105	70 - 125
Trichlorofluoromethane	50.0	54.5		ug/L		109	55 - 128
1,2,3-Trichloropropane	50.0	43.4		ug/L		87	50 - 133
1,2,4-Trimethylbenzene	50.0	49.2		ug/L		98	70 - 123
1,3,5-Trimethylbenzene	50.0	51.3		ug/L		103	70 - 123
Vinyl chloride	50.0	56.1		ug/L		112	64 - 126
Xylenes, Total	100	98.4		ug/L		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*
Dibromofluoromethane	*86*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 126*
Toluene-d8 (Surr)	*91*		*75 - 120*

Lab Sample ID: MB 500-459486/7
Matrix: Water
Analysis Batch: 459486

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/10/18 09:12	1
Benzene	<0.15		0.50	0.15	ug/L			11/10/18 09:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/10/18 09:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/10/18 09:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/10/18 09:12	1
Bromoform	<0.48		1.0	0.48	ug/L			11/10/18 09:12	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/10/18 09:12	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/10/18 09:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/10/18 09:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/10/18 09:12	1
Chloroform	<0.37		2.0	0.37	ug/L			11/10/18 09:12	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/10/18 09:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/10/18 09:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/10/18 09:12	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/10/18 09:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/10/18 09:12	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/10/18 09:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/10/18 09:12	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/10/18 09:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/10/18 09:12	1

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

Lab Sample ID: MB 500-459486/7
Matrix: Water
Analysis Batch: 459486

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/10/18 09:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/10/18 09:12	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/10/18 09:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/10/18 09:12	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/10/18 09:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/10/18 09:12	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/10/18 09:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/10/18 09:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/10/18 09:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/10/18 09:12	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/10/18 09:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/10/18 09:12	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/10/18 09:12	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/10/18 09:12	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/10/18 09:12	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/10/18 09:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/10/18 09:12	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/10/18 09:12	1
Styrene	<0.39		1.0	0.39	ug/L			11/10/18 09:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/10/18 09:12	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/10/18 09:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/10/18 09:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/10/18 09:12	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/10/18 09:12	1
Toluene	<0.15		0.50	0.15	ug/L			11/10/18 09:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/10/18 09:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/10/18 09:12	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/10/18 09:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/10/18 09:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/10/18 09:12	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/10/18 09:12	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/10/18 09:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/10/18 09:12	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/10/18 09:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/10/18 09:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/10/18 09:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/10/18 09:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/10/18 09:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*11/10/18 09:12*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*11/10/18 09:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*11/10/18 09:12*	*1*

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

Lab Sample ID: MB 500-459486/7
Matrix: Water
Analysis Batch: 459486

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		75 - 120		11/10/18 09:12	1

Lab Sample ID: LCS 500-459486/5
Matrix: Water
Analysis Batch: 459486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	40.4		ug/L		81	40 - 143
Benzene	50.0	50.1		ug/L		100	70 - 120
Bromobenzene	50.0	49.4		ug/L		99	70 - 122
Bromochloromethane	50.0	46.1		ug/L		92	65 - 122
Bromodichloromethane	50.0	48.4		ug/L		97	69 - 120
Bromoform	50.0	44.7		ug/L		89	56 - 132
Bromomethane	50.0	42.8		ug/L		86	40 - 152
2-Butanone (MEK)	50.0	41.9		ug/L		84	46 - 144
Carbon tetrachloride	50.0	50.9		ug/L		102	59 - 133
Chlorobenzene	50.0	48.1		ug/L		96	70 - 120
Chloroethane	50.0	68.7	*	ug/L		137	48 - 136
Chloroform	50.0	49.2		ug/L		98	70 - 120
Chloromethane	50.0	41.0		ug/L		82	56 - 152
2-Chlorotoluene	50.0	49.8		ug/L		100	70 - 125
4-Chlorotoluene	50.0	51.1		ug/L		102	68 - 124
cis-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 125
cis-1,3-Dichloropropene	50.0	47.4		ug/L		95	64 - 127
Dibromochloromethane	50.0	45.2		ug/L		90	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.0		ug/L		80	56 - 123
1,2-Dibromoethane	50.0	47.5		ug/L		95	70 - 125
Dibromomethane	50.0	47.4		ug/L		95	70 - 120
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	70 - 125
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 125
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 120
Dichlorodifluoromethane	50.0	44.8		ug/L		90	40 - 159
1,1-Dichloroethane	50.0	48.4		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	49.5		ug/L		99	68 - 127
1,1-Dichloroethene	50.0	52.9		ug/L		106	67 - 122
1,2-Dichloropropane	50.0	48.3		ug/L		97	67 - 130
1,3-Dichloropropane	50.0	48.6		ug/L		97	62 - 136
2,2-Dichloropropane	50.0	50.8		ug/L		102	58 - 139
1,1-Dichloropropene	50.0	51.6		ug/L		103	70 - 121
Ethylbenzene	50.0	49.5		ug/L		99	70 - 123
Hexachlorobutadiene	50.0	49.4		ug/L		99	51 - 150
2-Hexanone	50.0	46.5		ug/L		93	54 - 146
Isopropylbenzene	50.0	50.3		ug/L		101	70 - 126
Methylene Chloride	50.0	46.7		ug/L		93	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	43.2		ug/L		86	55 - 139
Methyl tert-butyl ether	50.0	46.4		ug/L		93	55 - 123
Naphthalene	50.0	42.8		ug/L		86	53 - 144
n-Butylbenzene	50.0	52.1		ug/L		104	68 - 125

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

Lab Sample ID: LCS 500-459486/5
Matrix: Water
Analysis Batch: 459486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	50.0	52.0		ug/L		104	69 - 127
p-Isopropyltoluene	50.0	50.1		ug/L		100	70 - 125
sec-Butylbenzene	50.0	50.5		ug/L		101	70 - 123
Styrene	50.0	48.0		ug/L		96	70 - 120
tert-Butylbenzene	50.0	50.0		ug/L		100	70 - 121
1,1,1,2-Tetrachloroethane	50.0	46.0		ug/L		92	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/L		95	62 - 140
Tetrachloroethene	50.0	50.3		ug/L		101	70 - 128
Tetrahydrofuran	100	92.9		ug/L		93	59 - 139
Toluene	50.0	46.9		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 125
trans-1,3-Dichloropropene	50.0	48.1		ug/L		96	62 - 128
1,2,3-Trichlorobenzene	50.0	45.2		ug/L		90	51 - 145
1,2,4-Trichlorobenzene	50.0	45.6		ug/L		91	57 - 137
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	70 - 125
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	71 - 130
Trichloroethene	50.0	49.9		ug/L		100	70 - 125
Trichlorofluoromethane	50.0	48.0		ug/L		96	55 - 128
1,2,3-Trichloropropane	50.0	48.6		ug/L		97	50 - 133
1,2,4-Trimethylbenzene	50.0	48.7		ug/L		97	70 - 123
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	70 - 123
Vinyl chloride	50.0	42.4		ug/L		85	64 - 126
Xylenes, Total	100	105		ug/L		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*93*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: MW-43D
Date Collected: 10/29/18 14:16
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	459261	11/09/18 15:00	PMF	TAL CHI
Total/NA	Analysis	8260B		2	459486	11/10/18 14:17	JJH	TAL CHI

Client Sample ID: MW-44D
Date Collected: 10/29/18 12:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	459261	11/09/18 15:26	PMF	TAL CHI
Total/NA	Analysis	8260B		2	459261	11/09/18 15:51	PMF	TAL CHI

Client Sample ID: MW-36D
Date Collected: 10/29/18 11:56
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	459261	11/09/18 16:17	PMF	TAL CHI

Client Sample ID: MW-46D
Date Collected: 10/29/18 10:28
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	459261	11/09/18 16:42	PMF	TAL CHI

Client Sample ID: MW-45D
Date Collected: 10/29/18 11:39
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	459261	11/09/18 17:08	PMF	TAL CHI

Client Sample ID: MW-40D
Date Collected: 10/29/18 13:58
Date Received: 10/31/18 09:40

Lab Sample ID: 500-154060-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	459261	11/09/18 17:34	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	50	459261	11/09/18 17:59	PMF	TAL CHI

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

Client Sample ID: MW-35D

Lab Sample ID: 500-154060-7

Date Collected: 10/29/18 13:04

Matrix: Ground Water

Date Received: 10/31/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	459261	11/09/18 18:25	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10	459486	11/10/18 14:43	JJH	TAL CHI

Client Sample ID: MW-44D Dup

Lab Sample ID: 500-154060-8

Date Collected: 10/29/18 12:56

Matrix: Ground Water

Date Received: 10/31/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	459325	11/09/18 18:02	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	20	459325	11/09/18 18:29	PMF	TAL CHI

Client Sample ID: TB

Lab Sample ID: 500-154060-9

Date Collected: 10/29/18 00:00

Matrix: Water

Date Received: 10/31/18 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	459325	11/09/18 21:31	PMF	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: Keck Farm - 25218118.00.

TestAmerica Job ID: 500-154060-1

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	08-31-19

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13840 Leon Rd
Address: Menomonee Falls
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact: Mike Prattke
Company: SCS Engineers
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-154060
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 1.3 ⇒ 2.8

Client: SCS Engineers | Client Project #:
Project Name: Keck Farm
Project Location/State: WI | Lab Project #:
Sampler: Charlie Bills | Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative 1	Parameter VOC(8260)	Comments
1		MW-43D	10/29/18	1416	3	Gw	3		
2		MW-44D		1256	3	Gw	3		
3		MW-36D		1156	3	Gw	3		
4		MW-46D		1028	3	Gw	3		
5		MW-45D		1139	3	Gw	3		
6		MW-40D		1358	3	Gw	3		
7		MW-35D		1304	3	Gw	3		
8		MW-44D Dup		1256	3	Gw	3		
9		TB							

500-154060 COC

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date ____

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	SCS	10/30/18	0900		TA	10-30-18	15:00
	TA	10-30-18	1700		TALLH	10/31/18	0940
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:

TAL-4124-500 (1208)

11/12/2018

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-154060-1

Login Number: 154060
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
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	Headspace larger than 1/4".
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 500-153531-3
Client Project/Site: Keck Farm - WI - 25218118.00.

For:
SCS Engineers
N84 W 13540 Leon Rd
Menomonee Falls, Wisconsin 53051

Attn: Mike Prattke

Sandie Fredrick

Authorized for release by:
11/8/2018 9:59:58 AM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

Job ID: 500-153531-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-153531-3

Comments
Client requested sample 4 be separated for reporting.

Receipt
The samples were received on 10/20/2018 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions
The following samples were received with headspace in the sample container. This sample container was received with headspace. PW-16 (500-153531-4). Sample #4 has 1 vial with headspace larger than pea size

GC/MS VOA
The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH were outside the required criteria when verified by the laboratory, and corrective action was not possible: PW-16 (500-153531-4).

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: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

Client Sample ID: PW-16 — Lab Sample ID: 500-153531-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.21	J	0.50	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

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: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153531-4	PW-16	Ground Water	10/18/18 12:55	10/20/18 10:20

Client Sample ID: PW-16
Date Collected: 10/18/18 12:55
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 22:52	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 22:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 22:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 22:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 22:52	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 22:52	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 22:52	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 22:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 22:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 22:52	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 22:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 22:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 22:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 22:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/31/18 22:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 22:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 22:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 22:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 22:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 22:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 22:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 22:52	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 22:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 22:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 22:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 22:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 22:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 22:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 22:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 22:52	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 22:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 22:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 22:52	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 22:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 22:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 22:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 22:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 22:52	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 22:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 22:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 22:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 22:52	1

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

Client Sample ID: PW-16
Date Collected: 10/18/18 12:55
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 22:52	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 22:52	1
Toluene	<0.15		0.50	0.15	ug/L			10/31/18 22:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 22:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 22:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 22:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 22:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 22:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 22:52	1
Trichloroethene	**0.21**	**J**	0.50	0.16	ug/L			10/31/18 22:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 22:52	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 22:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 22:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 22:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 22:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*10/31/18 22:52*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*10/31/18 22:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*10/31/18 22:52*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/31/18 22:52*	*1*

Definitions/Glossary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

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.

Glossary

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

QC Association Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

GC/MS VOA

Analysis Batch: 457783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153531-4	PW-16	Total/NA	Ground Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB	DBFM	DCA	TOL				
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)				
500-153531-4	PW-16	102	97	98	92				

Surrogate Legend

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

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

Client Sample ID: PW-16
Date Collected: 10/18/18 12:55
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457783	10/31/18 22:52	PMF	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: Keck Farm - WI - 25218118.00.

TestAmerica Job ID: 500-153531-3

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	08-31-19

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: Mike Prattke
Company: SCS Engineers
Address: N84 W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
E-Mail:

Bill To (optional)
Contact: Mike Prattke
Company: SCS Engineers
Address: N84 W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153531
Chain of Custody Number:
Page ___ of ___
Temperature °C of Cooler: 1.3

Client: SCS Engineers
Client Project #:
Project Name: Keck Farm
Project Location/State: WI
Lab Project #:
Sampler: Charlie Bills
Lab PM:

500-153531 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (8260B) (Preservative 1)									Comments
1		MW-9	10/18/18	1020	3	GW	3									
2		MW-8	↓	1050	3	GW	3									
3		MW-7	↓	1100	3	GW	3									
4		PW-16	↓	1255	3	GW	3									
5		MW-1C	↓	1546	3	GW	3									
6		MW-19C	↓	1501	3	GW	3									
7		MW-4	↓	1316	3	GW	3									
8		MW-3	↓	1206	3	GW	3									
9		MW-5	↓	1546	3	GW	3									
10		MW-26C	↓	1116	3	GW	3									

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

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date ___

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Charlie B[illegible]	SCS	10/19/18	1300	[signature]	TA	10-19-18	1300
[signature]	TA	10-19-18	1700	[signature]	TALMS	10/20/18	1620

Lab Courier:
Shipped: FXSATUrday
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:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153531

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler: 1.3

Client: SCS Engineers
Client Project #:
Project Name: Keck Farm
Project Location/State: WI
Lab Project #:
Sampler: Charlie Bills
Lab PM:
Preservative:
Parameter: VOC (8260 B)

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC (8260 B)	Comments
11		MW-6	10/18/18	1450	3	GW	3	
12		MW-28D	10/18/18	1359	3	GW	3	
13		MW-20C	10/18/18	1239	3	GW	3	
14		TB						
15		MW-28D Dup	10/18/18	1359	3	GW	3	
16		Tote 1	10/19/18	0840	3	GW	3	
17		Tote 2		0845	3	GW	3	
18		Tote 3		0850	3	GW	3	
19		Tote 4		0855	3	GW	3	
20		Tote 6		0900	3	GW	3	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ___ Other
Requested Due Date

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	SCS	10/19/18	1300	[signature]	TA	10-19-18	1500
[signature]	TA	10-19-18	1700	[signature]	TA/ES	10/20/18	1020

Lab Courier:
Shipped: FX SATURDAY
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:

TAL-4124-500 (1209)

11/8/2018

1 - 48 qt

UNIVERSITY PARK IL 60484
534-5200 REF:
DEPT:

FedEx Express

E

J181118060501uv

TRK# 0201 7125 4939 0379

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 JOTA

60484
IL-US ORD

500-153531 Waybill

1
2
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14

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-153531-3

Login Number: 153531
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
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	

Attachment C

Waste Disposal Documentation

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: 500-153531-2
Client Project/Site: Keck Farm - WI - 25218118.00 Totes

For:
SCS Engineers
N84 W 13540 Leon Rd
Menomonee Falls, Wisconsin 53051

Attn: Mike Prattke

Sandie Fredrick

Authorized for release by:
11/6/2018 10:31:47 AM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Job ID: 500-153531-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-153531-2

Comments
No additional comments.

Receipt
The samples were received on 10/20/2018 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

GC/MS VOA
The following samples were diluted to bring the concentration of target analytes within the calibration range:Tote 1 (500-153531-16), Tote 2 (500-153531-17) and Tote 3 (500-153531-18). Elevated reporting limits (RLs) are provided.

The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH were outside the required criteria when verified by the laboratory, and corrective action was not possible: Tote 2 (500-153531-17).

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: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Client Sample ID: Tote 1 — Lab Sample ID: 500-153531-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5	J	2.5	0.73	ug/L	5		8260B	Total/NA
Chlorobenzene	2.9	J	5.0	1.9	ug/L	5		8260B	Total/NA
1,1-Dichloroethane	3.8	J	5.0	2.1	ug/L	5		8260B	Total/NA
1,1-Dichloroethene	7.1		5.0	2.0	ug/L	5		8260B	Total/NA
Ethylbenzene	1.1	J	2.5	0.92	ug/L	5		8260B	Total/NA
Toluene	1.8	J	2.5	0.76	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	240		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	81		5.0	1.0	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	5700		100	41	ug/L	100		8260B	Total/NA
Trichloroethene - DL	1900		50	16	ug/L	100		8260B	Total/NA

Client Sample ID: Tote 2 — Lab Sample ID: 500-153531-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	210		25	8.7	ug/L	5		8260B	Total/NA
1,1-Dichloroethene	4.5	J	5.0	2.0	ug/L	5		8260B	Total/NA
Toluene	1.9	J	2.5	0.76	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	22		5.0	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	320		2.5	0.82	ug/L	5		8260B	Total/NA
Vinyl chloride	13		5.0	1.0	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	5300		50	20	ug/L	50		8260B	Total/NA

Client Sample ID: Tote 3 — Lab Sample ID: 500-153531-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21		10	3.5	ug/L	2		8260B	Total/NA
Chloroethane	1.5	J	2.0	1.0	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	0.93	J	2.0	0.78	ug/L	2		8260B	Total/NA
Naphthalene	1.5	J	2.0	0.67	ug/L	2		8260B	Total/NA
Toluene	0.62	J	1.0	0.30	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	36		2.0	0.70	ug/L	2		8260B	Total/NA
Vinyl chloride	66		2.0	0.41	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1500		20	8.2	ug/L	20		8260B	Total/NA
Trichloroethene - DL	610		10	3.3	ug/L	20		8260B	Total/NA

Client Sample ID: Tote 4 — Lab Sample ID: 500-153531-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44		5.0	1.7	ug/L	1		8260B	Total/NA
Benzene	0.16	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	2.5		1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	170		1.0	0.41	ug/L	1		8260B	Total/NA
Naphthalene	1.1		1.0	0.34	ug/L	1		8260B	Total/NA
Styrene	0.55	J	1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.31	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	93		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	79		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.37	J	1.0	0.36	ug/L	1		8260B	Total/NA
Vinyl chloride	24		1.0	0.20	ug/L	1		8260B	Total/NA
Xylenes, Total	0.54	J	1.0	0.22	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Client Sample ID: Tote 6

Lab Sample ID: 500-153531-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	46		5.0	1.7	ug/L	1		8260B	Total/NA
Chloroethane	1.1		1.0	0.51	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.54	J	1.0	0.39	ug/L	1		8260B	Total/NA
Naphthalene	0.72	J	1.0	0.34	ug/L	1		8260B	Total/NA
Toluene	0.23	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	32		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	94		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	78		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	520		10	4.1	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

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: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-153531-16	Tote 1	Ground Water	10/18/18 08:40	10/20/18 10:20
500-153531-17	Tote 2	Ground Water	10/18/18 08:45	10/20/18 10:20
500-153531-18	Tote 3	Ground Water	10/18/18 08:50	10/20/18 10:20
500-153531-19	Tote 4	Ground Water	10/18/18 08:55	10/20/18 10:20
500-153531-20	Tote 6	Ground Water	10/18/18 09:00	10/20/18 10:20

Client Sample ID: Tote 1

Date Collected: 10/18/18 08:40
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-16

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<8.7		25	8.7	ug/L			11/01/18 02:18	5
Benzene	**1.5**	**J**	2.5	0.73	ug/L			11/01/18 02:18	5
Bromobenzene	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			11/01/18 02:18	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
Bromoform	<2.4		5.0	2.4	ug/L			11/01/18 02:18	5
Bromomethane	<4.0		10	4.0	ug/L			11/01/18 02:18	5
2-Butanone (MEK)	<11		25	11	ug/L			11/01/18 02:18	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
Chlorobenzene	**2.9**	**J**	5.0	1.9	ug/L			11/01/18 02:18	5
Chloroethane	<2.5		5.0	2.5	ug/L			11/01/18 02:18	5
Chloroform	<1.9		10	1.9	ug/L			11/01/18 02:18	5
Chloromethane	<1.6		5.0	1.6	ug/L			11/01/18 02:18	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			11/01/18 02:18	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			11/01/18 02:18	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			11/01/18 02:18	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			11/01/18 02:18	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			11/01/18 02:18	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
Dibromomethane	<1.4		5.0	1.4	ug/L			11/01/18 02:18	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			11/01/18 02:18	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			11/01/18 02:18	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
Dichlorodifluoromethane	<3.4		10	3.4	ug/L			11/01/18 02:18	5
1,1-Dichloroethane	**3.8**	**J**	5.0	2.1	ug/L			11/01/18 02:18	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			11/01/18 02:18	5
1,1-Dichloroethene	**7.1**		5.0	2.0	ug/L			11/01/18 02:18	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			11/01/18 02:18	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			11/01/18 02:18	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			11/01/18 02:18	5
Ethylbenzene	**1.1**	**J**	2.5	0.92	ug/L			11/01/18 02:18	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			11/01/18 02:18	5
2-Hexanone	<7.8		25	7.8	ug/L			11/01/18 02:18	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			11/01/18 02:18	5
Methylene Chloride	<8.2		25	8.2	ug/L			11/01/18 02:18	5
4-Methyl-2-pentanone (MIBK)	<11		25	11	ug/L			11/01/18 02:18	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			11/01/18 02:18	5
Naphthalene	<1.7		5.0	1.7	ug/L			11/01/18 02:18	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			11/01/18 02:18	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			11/01/18 02:18	5
Styrene	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			11/01/18 02:18	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			11/01/18 02:18	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			11/01/18 02:18	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5

Client Sample ID: Tote 1

Date Collected: 10/18/18 08:40
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-16

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	<9.4		50	9.4	ug/L			11/01/18 02:18	5
Toluene	**1.8**	**J**	2.5	0.76	ug/L			11/01/18 02:18	5
trans-1,2-Dichloroethene	**240**		5.0	1.7	ug/L			11/01/18 02:18	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			11/01/18 02:18	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			11/01/18 02:18	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			11/01/18 02:18	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			11/01/18 02:18	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			11/01/18 02:18	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			11/01/18 02:18	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			11/01/18 02:18	5
Vinyl chloride	**81**		5.0	1.0	ug/L			11/01/18 02:18	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			11/01/18 02:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*11/01/18 02:18*	*5*
Dibromofluoromethane	*96*		*75 - 120*		*11/01/18 02:18*	*5*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*11/01/18 02:18*	*5*
Toluene-d8 (Surr)	*95*		*75 - 120*		*11/01/18 02:18*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**5700**		100	41	ug/L			11/01/18 16:24	100
Trichloroethene	**1900**		50	16	ug/L			11/01/18 16:24	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 16:24*	*100*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 16:24*	*100*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*11/01/18 16:24*	*100*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 16:24*	*100*

Client Sample ID: Tote 2

Date Collected: 10/18/18 08:45
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-17

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**210**		25	8.7	ug/L			11/01/18 01:19	5
Benzene	<0.73		2.5	0.73	ug/L			11/01/18 01:19	5
Bromobenzene	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
Bromoform	<2.4		5.0	2.4	ug/L			11/01/18 01:19	5
Bromomethane	<4.0		10	4.0	ug/L			11/01/18 01:19	5
2-Butanone (MEK)	<11		25	11	ug/L			11/01/18 01:19	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
Chloroethane	<2.5		5.0	2.5	ug/L			11/01/18 01:19	5
Chloroform	<1.9		10	1.9	ug/L			11/01/18 01:19	5

Client Sample ID: Tote 2
Date Collected: 10/18/18 08:45
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-17
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<1.6		5.0	1.6	ug/L			11/01/18 01:19	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			11/01/18 01:19	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			11/01/18 01:19	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			11/01/18 01:19	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			11/01/18 01:19	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
Dibromomethane	<1.4		5.0	1.4	ug/L			11/01/18 01:19	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			11/01/18 01:19	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			11/01/18 01:19	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5
Dichlorodifluoromethane	<3.4		10	3.4	ug/L			11/01/18 01:19	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			11/01/18 01:19	5
1,1-Dichloroethene	**4.5**	**J**	5.0	2.0	ug/L			11/01/18 01:19	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			11/01/18 01:19	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			11/01/18 01:19	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			11/01/18 01:19	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			11/01/18 01:19	5
2-Hexanone	<7.8		25	7.8	ug/L			11/01/18 01:19	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			11/01/18 01:19	5
Methylene Chloride	<8.2		25	8.2	ug/L			11/01/18 01:19	5
4-Methyl-2-pentanone (MIBK)	<11		25	11	ug/L			11/01/18 01:19	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			11/01/18 01:19	5
Naphthalene	<1.7		5.0	1.7	ug/L			11/01/18 01:19	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			11/01/18 01:19	5
Styrene	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			11/01/18 01:19	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			11/01/18 01:19	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			11/01/18 01:19	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
Tetrahydrofuran	<9.4		50	9.4	ug/L			11/01/18 01:19	5
Toluene	**1.9**	**J**	2.5	0.76	ug/L			11/01/18 01:19	5
trans-1,2-Dichloroethene	**22**		5.0	1.7	ug/L			11/01/18 01:19	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			11/01/18 01:19	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			11/01/18 01:19	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			11/01/18 01:19	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5
Trichloroethene	**320**		2.5	0.82	ug/L			11/01/18 01:19	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			11/01/18 01:19	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			11/01/18 01:19	5

Client Sample ID: Tote 2

Lab Sample ID: 500-153531-17
Date Collected: 10/18/18 08:45
Matrix: Ground Water
Date Received: 10/20/18 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			11/01/18 01:19	5
Vinyl chloride	**13**		5.0	1.0	ug/L			11/01/18 01:19	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			11/01/18 01:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/01/18 01:19*	*5*
Dibromofluoromethane	*95*		*75 - 120*		*11/01/18 01:19*	*5*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 01:19*	*5*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/18 01:19*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**5300**		50	20	ug/L			11/01/18 01:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*11/01/18 01:49*	*50*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 01:49*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*11/01/18 01:49*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/18 01:49*	*50*

Client Sample ID: Tote 3

Lab Sample ID: 500-153531-18
Date Collected: 10/18/18 08:50
Matrix: Ground Water
Date Received: 10/20/18 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**21**		10	3.5	ug/L			11/01/18 16:53	2
Benzene	<0.29		1.0	0.29	ug/L			11/01/18 16:53	2
Bromobenzene	<0.71		2.0	0.71	ug/L			11/01/18 16:53	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			11/01/18 16:53	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			11/01/18 16:53	2
Bromoform	<0.97		2.0	0.97	ug/L			11/01/18 16:53	2
Bromomethane	<1.6		4.0	1.6	ug/L			11/01/18 16:53	2
2-Butanone (MEK)	<4.2		10	4.2	ug/L			11/01/18 16:53	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			11/01/18 16:53	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			11/01/18 16:53	2
Chloroethane	**1.5**	**J**	2.0	1.0	ug/L			11/01/18 16:53	2
Chloroform	<0.74		4.0	0.74	ug/L			11/01/18 16:53	2
Chloromethane	<0.64		2.0	0.64	ug/L			11/01/18 16:53	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			11/01/18 16:53	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			11/01/18 16:53	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			11/01/18 16:53	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			11/01/18 16:53	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			11/01/18 16:53	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			11/01/18 16:53	2
Dibromomethane	<0.54		2.0	0.54	ug/L			11/01/18 16:53	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			11/01/18 16:53	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			11/01/18 16:53	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			11/01/18 16:53	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			11/01/18 16:53	2

Client Sample ID: Tote 3
Date Collected: 10/18/18 08:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-18
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			11/01/18 16:53	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			11/01/18 16:53	2
1,1-Dichloroethene	**0.93**	**J**	2.0	0.78	ug/L			11/01/18 16:53	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			11/01/18 16:53	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			11/01/18 16:53	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			11/01/18 16:53	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			11/01/18 16:53	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			11/01/18 16:53	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			11/01/18 16:53	2
2-Hexanone	<3.1		10	3.1	ug/L			11/01/18 16:53	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			11/01/18 16:53	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			11/01/18 16:53	2
Methylene Chloride	<3.3		10	3.3	ug/L			11/01/18 16:53	2
4-Methyl-2-pentanone (MIBK)	<4.3		10	4.3	ug/L			11/01/18 16:53	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			11/01/18 16:53	2
Naphthalene	**1.5**	**J**	2.0	0.67	ug/L			11/01/18 16:53	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			11/01/18 16:53	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			11/01/18 16:53	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			11/01/18 16:53	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			11/01/18 16:53	2
Styrene	<0.77		2.0	0.77	ug/L			11/01/18 16:53	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			11/01/18 16:53	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			11/01/18 16:53	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			11/01/18 16:53	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			11/01/18 16:53	2
Tetrahydrofuran	<3.8		20	3.8	ug/L			11/01/18 16:53	2
Toluene	**0.62**	**J**	1.0	0.30	ug/L			11/01/18 16:53	2
trans-1,2-Dichloroethene	**36**		2.0	0.70	ug/L			11/01/18 16:53	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			11/01/18 16:53	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			11/01/18 16:53	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			11/01/18 16:53	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			11/01/18 16:53	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			11/01/18 16:53	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			11/01/18 16:53	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			11/01/18 16:53	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			11/01/18 16:53	2
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			11/01/18 16:53	2
Vinyl chloride	**66**		2.0	0.41	ug/L			11/01/18 16:53	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			11/01/18 16:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/01/18 16:53*	*2*
Dibromofluoromethane	*94*		*75 - 120*		*11/01/18 16:53*	*2*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 16:53*	*2*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/18 16:53*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1500**		20	8.2	ug/L			11/01/18 17:23	20
Trichloroethene	**610**		10	3.3	ug/L			11/01/18 17:23	20

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Client Sample ID: Tote 3

Date Collected: 10/18/18 08:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-18
Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 17:23*	*20*
Dibromofluoromethane	*96*		*75 - 120*		*11/01/18 17:23*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*11/01/18 17:23*	*20*
Toluene-d8 (Surr)	*91*		*75 - 120*		*11/01/18 17:23*	*20*

Client Sample ID: Tote 4

Date Collected: 10/18/18 08:55
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-19
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**44**		5.0	1.7	ug/L			10/31/18 23:51	1
Benzene	**0.16**	**J**	0.50	0.15	ug/L			10/31/18 23:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 23:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 23:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 23:51	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 23:51	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 23:51	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 23:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 23:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 23:51	1
Chloroethane	**2.5**		1.0	0.51	ug/L			10/31/18 23:51	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 23:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 23:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 23:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 23:51	1
cis-1,2-Dichloroethene	**170**		1.0	0.41	ug/L			10/31/18 23:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 23:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 23:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 23:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 23:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 23:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 23:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 23:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 23:51	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 23:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 23:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 23:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 23:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 23:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 23:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 23:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 23:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 23:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 23:51	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 23:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 23:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 23:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 23:51	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 23:51	1

Client Sample ID: Tote 4

Date Collected: 10/18/18 08:55
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-19

Matrix: Ground Water

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			10/31/18 23:51	1
Naphthalene	**1.1**		1.0	0.34	ug/L			10/31/18 23:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 23:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 23:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 23:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 23:51	1
Styrene	**0.55**	**J**	1.0	0.39	ug/L			10/31/18 23:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 23:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 23:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 23:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 23:51	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 23:51	1
Toluene	**0.31**	**J**	0.50	0.15	ug/L			10/31/18 23:51	1
trans-1,2-Dichloroethene	**93**		1.0	0.35	ug/L			10/31/18 23:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 23:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 23:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 23:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 23:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 23:51	1
Trichloroethene	**79**		0.50	0.16	ug/L			10/31/18 23:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 23:51	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 23:51	1
1,2,4-Trimethylbenzene	**0.37**	**J**	1.0	0.36	ug/L			10/31/18 23:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 23:51	1
Vinyl chloride	**24**		1.0	0.20	ug/L			10/31/18 23:51	1
Xylenes, Total	**0.54**	**J**	1.0	0.22	ug/L			10/31/18 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*10/31/18 23:51*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/31/18 23:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*10/31/18 23:51*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/31/18 23:51*	*1*

Client Sample ID: Tote 6

Date Collected: 10/18/18 09:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-20

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**46**		5.0	1.7	ug/L			11/01/18 00:20	1
Benzene	<0.15		0.50	0.15	ug/L			11/01/18 00:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/01/18 00:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/01/18 00:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/01/18 00:20	1
Bromoform	<0.48		1.0	0.48	ug/L			11/01/18 00:20	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/01/18 00:20	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/01/18 00:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/01/18 00:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
Chloroethane	**1.1**		1.0	0.51	ug/L			11/01/18 00:20	1

Client Sample ID: Tote 6
Date Collected: 10/18/18 09:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-20
Matrix: Ground 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			11/01/18 00:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/01/18 00:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/01/18 00:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/01/18 00:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/01/18 00:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/01/18 00:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/01/18 00:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/01/18 00:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/01/18 00:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/01/18 00:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/01/18 00:20	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/01/18 00:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/01/18 00:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
1,1-Dichloroethene	**0.54**	**J**	1.0	0.39	ug/L			11/01/18 00:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/01/18 00:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/01/18 00:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/01/18 00:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/01/18 00:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/01/18 00:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/01/18 00:20	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/01/18 00:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/01/18 00:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/01/18 00:20	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/01/18 00:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
Naphthalene	**0.72**	**J**	1.0	0.34	ug/L			11/01/18 00:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/01/18 00:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/01/18 00:20	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 00:20	1
Styrene	<0.39		1.0	0.39	ug/L			11/01/18 00:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 00:20	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/01/18 00:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/01/18 00:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/01/18 00:20	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/01/18 00:20	1
Toluene	**0.23**	**J**	0.50	0.15	ug/L			11/01/18 00:20	1
trans-1,2-Dichloroethene	**32**		1.0	0.35	ug/L			11/01/18 00:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/01/18 00:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/01/18 00:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/01/18 00:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/01/18 00:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/01/18 00:20	1
Trichloroethene	**94**		0.50	0.16	ug/L			11/01/18 00:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/01/18 00:20	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/01/18 00:20	1

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Client Sample ID: Tote 6
Date Collected: 10/18/18 09:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-20
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/01/18 00:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/01/18 00:20	1
Vinyl chloride	**78**		1.0	0.20	ug/L			11/01/18 00:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/01/18 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*11/01/18 00:20*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/01/18 00:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 00:20*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/01/18 00:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**520**		10	4.1	ug/L			11/01/18 00:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 00:50*	*10*
Dibromofluoromethane	*96*		*75 - 120*		*11/01/18 00:50*	*10*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/01/18 00:50*	*10*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/18 00:50*	*10*

Definitions/Glossary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

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.

Glossary

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

QC Association Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

GC/MS VOA

Analysis Batch: 457783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153531-16	Tote 1	Total/NA	Ground Water	8260B	
500-153531-17	Tote 2	Total/NA	Ground Water	8260B	
500-153531-17 - DL	Tote 2	Total/NA	Ground Water	8260B	
500-153531-19	Tote 4	Total/NA	Ground Water	8260B	
500-153531-20	Tote 6	Total/NA	Ground Water	8260B	
500-153531-20 - DL	Tote 6	Total/NA	Ground Water	8260B	
MB 500-457783/27	Method Blank	Total/NA	Water	8260B	
LCS 500-457783/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 457859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-153531-16 - DL	Tote 1	Total/NA	Ground Water	8260B	
500-153531-18	Tote 3	Total/NA	Ground Water	8260B	
500-153531-18 - DL	Tote 3	Total/NA	Ground Water	8260B	
MB 500-457859/6	Method Blank	Total/NA	Water	8260B	
LCS 500-457859/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

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

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-153531-16	Tote 1	103	96	98	95
500-153531-16 - DL	Tote 1	100	94	94	92
500-153531-17	Tote 2	102	95	95	93
500-153531-17 - DL	Tote 2	101	94	97	93
500-153531-18	Tote 3	102	94	95	93
500-153531-18 - DL	Tote 3	100	96	98	91
500-153531-19	Tote 4	100	95	96	93
500-153531-20	Tote 6	102	95	95	94
500-153531-20 - DL	Tote 6	100	96	95	93

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
LCS 500-457783/5	Lab Control Sample	96	89	90	93
LCS 500-457859/4	Lab Control Sample	94	89	92	94
MB 500-457783/27	Method Blank	101	93	92	92
MB 500-457859/6	Method Blank	100	95	98	92

Surrogate Legend

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

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

Lab Sample ID: MB 500-457783/27
Matrix: Water
Analysis Batch: 457783

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			10/31/18 18:57	1
Benzene	<0.15		0.50	0.15	ug/L			10/31/18 18:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/31/18 18:57	1
Bromoform	<0.48		1.0	0.48	ug/L			10/31/18 18:57	1
Bromomethane	<0.80		2.0	0.80	ug/L			10/31/18 18:57	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			10/31/18 18:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/31/18 18:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/31/18 18:57	1
Chloroform	<0.37		2.0	0.37	ug/L			10/31/18 18:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/31/18 18:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/31/18 18:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/31/18 18:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/31/18 18:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/31/18 18:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/31/18 18:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/31/18 18:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/31/18 18:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			10/31/18 18:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/31/18 18:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/31/18 18:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/31/18 18:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/31/18 18:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/31/18 18:57	1
2-Hexanone	<1.6		5.0	1.6	ug/L			10/31/18 18:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/31/18 18:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/31/18 18:57	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			10/31/18 18:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/31/18 18:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
Styrene	<0.39		1.0	0.39	ug/L			10/31/18 18:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/31/18 18:57	1

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

Lab Sample ID: MB 500-457783/27
Matrix: Water
Analysis Batch: 457783

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/31/18 18:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/31/18 18:57	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			10/31/18 18:57	1
Toluene	<0.15		0.50	0.15	ug/L			10/31/18 18:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/31/18 18:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/31/18 18:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/31/18 18:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/31/18 18:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/31/18 18:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/31/18 18:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/31/18 18:57	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			10/31/18 18:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/31/18 18:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/31/18 18:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/31/18 18:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/31/18 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*10/31/18 18:57*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/31/18 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*10/31/18 18:57*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/31/18 18:57*	*1*

Lab Sample ID: LCS 500-457783/5
Matrix: Water
Analysis Batch: 457783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	38.9		ug/L		78	40 - 143
Benzene	50.0	45.1		ug/L		90	70 - 120
Bromobenzene	50.0	51.3		ug/L		103	70 - 122
Bromochloromethane	50.0	45.5		ug/L		91	65 - 122
Bromodichloromethane	50.0	46.8		ug/L		94	69 - 120
Bromoform	50.0	55.0		ug/L		110	56 - 132
Bromomethane	50.0	33.8		ug/L		68	40 - 152
2-Butanone (MEK)	50.0	44.6		ug/L		89	46 - 144
Carbon tetrachloride	50.0	48.4		ug/L		97	59 - 133
Chlorobenzene	50.0	47.0		ug/L		94	70 - 120
Chloroethane	50.0	37.9		ug/L		76	48 - 136
Chloroform	50.0	46.1		ug/L		92	70 - 120
Chloromethane	50.0	40.1		ug/L		80	56 - 152
2-Chlorotoluene	50.0	47.3		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.2		ug/L		94	68 - 124
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 125
cis-1,3-Dichloropropene	50.0	43.2		ug/L		86	64 - 127
Dibromochloromethane	50.0	49.1		ug/L		98	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	42.2		ug/L		84	56 - 123

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

Lab Sample ID: LCS 500-457783/5
Matrix: Water
Analysis Batch: 457783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	50.0	46.5		ug/L		93	70 - 125
Dibromomethane	50.0	45.0		ug/L		90	70 - 120
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 125
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	70 - 125
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 120
Dichlorodifluoromethane	50.0	52.2		ug/L		104	40 - 159
1,1-Dichloroethane	50.0	42.5		ug/L		85	70 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	68 - 127
1,1-Dichloroethene	50.0	45.7		ug/L		91	67 - 122
1,2-Dichloropropane	50.0	42.3		ug/L		85	67 - 130
1,3-Dichloropropane	50.0	45.5		ug/L		91	62 - 136
2,2-Dichloropropane	50.0	38.6		ug/L		77	58 - 139
1,1-Dichloropropene	50.0	45.5		ug/L		91	70 - 121
Ethylbenzene	50.0	47.4		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	58.9		ug/L		118	51 - 150
2-Hexanone	50.0	37.6		ug/L		75	54 - 146
Isopropylbenzene	50.0	47.8		ug/L		96	70 - 126
Methylene Chloride	50.0	42.4		ug/L		85	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	37.6		ug/L		75	55 - 139
Methyl tert-butyl ether	50.0	39.9		ug/L		80	55 - 123
Naphthalene	50.0	42.0		ug/L		84	53 - 144
n-Butylbenzene	50.0	47.5		ug/L		95	68 - 125
N-Propylbenzene	50.0	47.3		ug/L		95	69 - 127
p-Isopropyltoluene	50.0	48.2		ug/L		96	70 - 125
sec-Butylbenzene	50.0	48.0		ug/L		96	70 - 123
Styrene	50.0	47.7		ug/L		95	70 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	62 - 140
Tetrachloroethene	50.0	53.0		ug/L		106	70 - 128
Tetrahydrofuran	100	67.3		ug/L		67	59 - 139
Toluene	50.0	45.6		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	46.4		ug/L		93	70 - 125
trans-1,3-Dichloropropene	50.0	43.1		ug/L		86	62 - 128
1,2,3-Trichlorobenzene	50.0	51.2		ug/L		102	51 - 145
1,2,4-Trichlorobenzene	50.0	50.0		ug/L		100	57 - 137
1,1,1-Trichloroethane	50.0	46.0		ug/L		92	70 - 125
1,1,2-Trichloroethane	50.0	45.8		ug/L		92	71 - 130
Trichloroethene	50.0	47.7		ug/L		95	70 - 125
Trichlorofluoromethane	50.0	43.5		ug/L		87	55 - 128
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	50 - 133
1,2,4-Trimethylbenzene	50.0	47.6		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	50.0	47.3		ug/L		95	70 - 123
Vinyl chloride	50.0	51.8		ug/L		104	64 - 126
Xylenes, Total	100	90.5		ug/L		91	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*

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

Lab Sample ID: LCS 500-457783/5
Matrix: Water
Analysis Batch: 457783

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*89*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: MB 500-457859/6
Matrix: Water
Analysis Batch: 457859

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		5.0	1.7	ug/L			11/01/18 10:28	1
Benzene	<0.15		0.50	0.15	ug/L			11/01/18 10:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/01/18 10:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/01/18 10:28	1
Bromoform	<0.48		1.0	0.48	ug/L			11/01/18 10:28	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/01/18 10:28	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			11/01/18 10:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/01/18 10:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/01/18 10:28	1
Chloroform	<0.37		2.0	0.37	ug/L			11/01/18 10:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/01/18 10:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/01/18 10:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/01/18 10:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/01/18 10:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/01/18 10:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/01/18 10:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/01/18 10:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/01/18 10:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/01/18 10:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/01/18 10:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/01/18 10:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/01/18 10:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/01/18 10:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/01/18 10:28	1
2-Hexanone	<1.6		5.0	1.6	ug/L			11/01/18 10:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/01/18 10:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/01/18 10:28	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			11/01/18 10:28	1

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

Lab Sample ID: MB 500-457859/6
Matrix: Water
Analysis Batch: 457859

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/01/18 10:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
Styrene	<0.39		1.0	0.39	ug/L			11/01/18 10:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/01/18 10:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/01/18 10:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/01/18 10:28	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			11/01/18 10:28	1
Toluene	<0.15		0.50	0.15	ug/L			11/01/18 10:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/01/18 10:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/01/18 10:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/01/18 10:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/01/18 10:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/01/18 10:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/01/18 10:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/01/18 10:28	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/01/18 10:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/01/18 10:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/01/18 10:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/01/18 10:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/01/18 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*11/01/18 10:28*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/01/18 10:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*11/01/18 10:28*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/18 10:28*	*1*

Lab Sample ID: LCS 500-457859/4
Matrix: Water
Analysis Batch: 457859

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	45.6		ug/L		91	40 - 143
Benzene	50.0	43.2		ug/L		86	70 - 120
Bromobenzene	50.0	49.5		ug/L		99	70 - 122
Bromochloromethane	50.0	44.8		ug/L		90	65 - 122
Bromodichloromethane	50.0	45.7		ug/L		91	69 - 120
Bromoform	50.0	56.0		ug/L		112	56 - 132
Bromomethane	50.0	37.9		ug/L		76	40 - 152
2-Butanone (MEK)	50.0	46.2		ug/L		92	46 - 144
Carbon tetrachloride	50.0	47.0		ug/L		94	59 - 133
Chlorobenzene	50.0	46.3		ug/L		93	70 - 120

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

Lab Sample ID: LCS 500-457859/4
Matrix: Water
Analysis Batch: 457859

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	44.5		ug/L		89	48 - 136
Chloroform	50.0	44.3		ug/L		89	70 - 120
Chloromethane	50.0	53.1		ug/L		106	56 - 152
2-Chlorotoluene	50.0	45.6		ug/L		91	70 - 125
4-Chlorotoluene	50.0	46.1		ug/L		92	68 - 124
cis-1,2-Dichloroethene	50.0	43.1		ug/L		86	70 - 125
cis-1,3-Dichloropropene	50.0	43.2		ug/L		86	64 - 127
Dibromochloromethane	50.0	49.8		ug/L		100	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/L		87	56 - 123
1,2-Dibromoethane	50.0	47.5		ug/L		95	70 - 125
Dibromomethane	50.0	45.5		ug/L		91	70 - 120
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 125
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,4-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	64.3		ug/L		129	40 - 159
1,1-Dichloroethane	50.0	41.2		ug/L		82	70 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	68 - 127
1,1-Dichloroethene	50.0	43.4		ug/L		87	67 - 122
1,2-Dichloropropane	50.0	42.2		ug/L		84	67 - 130
1,3-Dichloropropane	50.0	45.3		ug/L		91	62 - 136
2,2-Dichloropropane	50.0	37.4		ug/L		75	58 - 139
1,1-Dichloropropene	50.0	44.0		ug/L		88	70 - 121
Ethylbenzene	50.0	46.3		ug/L		93	70 - 123
Hexachlorobutadiene	50.0	56.7		ug/L		113	51 - 150
2-Hexanone	50.0	38.5		ug/L		77	54 - 146
Isopropylbenzene	50.0	45.8		ug/L		92	70 - 126
Methylene Chloride	50.0	41.5		ug/L		83	69 - 125
4-Methyl-2-pentanone (MIBK)	50.0	40.3		ug/L		81	55 - 139
Methyl tert-butyl ether	50.0	39.4		ug/L		79	55 - 123
Naphthalene	50.0	41.0		ug/L		82	53 - 144
n-Butylbenzene	50.0	45.7		ug/L		91	68 - 125
N-Propylbenzene	50.0	45.2		ug/L		90	69 - 127
p-Isopropyltoluene	50.0	46.2		ug/L		92	70 - 125
sec-Butylbenzene	50.0	46.1		ug/L		92	70 - 123
Styrene	50.0	46.8		ug/L		94	70 - 120
tert-Butylbenzene	50.0	46.5		ug/L		93	70 - 121
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	62 - 140
Tetrachloroethene	50.0	51.4		ug/L		103	70 - 128
Tetrahydrofuran	100	72.5		ug/L		72	59 - 139
Toluene	50.0	44.3		ug/L		89	70 - 125
trans-1,2-Dichloroethene	50.0	44.3		ug/L		89	70 - 125
trans-1,3-Dichloropropene	50.0	43.4		ug/L		87	62 - 128
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	51 - 145
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	57 - 137
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	71 - 130
Trichloroethene	50.0	45.2		ug/L		90	70 - 125

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

Lab Sample ID: LCS 500-457859/4
Matrix: Water
Analysis Batch: 457859

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			50.0	49.2		ug/L		98	55 - 128		
1,2,3-Trichloropropane			50.0	48.1		ug/L		96	50 - 133		
1,2,4-Trimethylbenzene			50.0	45.7		ug/L		91	70 - 123		
1,3,5-Trimethylbenzene			50.0	45.7		ug/L		91	70 - 123		
Vinyl chloride			50.0	58.8		ug/L		118	64 - 126		
Xylenes, Total			100	88.8		ug/L		89	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Project/Site: Keck Farm - WI - 25218118.00 Totes

TestAmerica Job ID: 500-153531-2

Client Sample ID: Tote 1
Date Collected: 10/18/18 08:40
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-16
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	457783	11/01/18 02:18	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	100	457859	11/01/18 16:24	PMF	TAL CHI

Client Sample ID: Tote 2
Date Collected: 10/18/18 08:45
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-17
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	457783	11/01/18 01:19	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	50	457783	11/01/18 01:49	PMF	TAL CHI

Client Sample ID: Tote 3
Date Collected: 10/18/18 08:50
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-18
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	457859	11/01/18 16:53	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	20	457859	11/01/18 17:23	PMF	TAL CHI

Client Sample ID: Tote 4
Date Collected: 10/18/18 08:55
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-19
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457783	10/31/18 23:51	PMF	TAL CHI

Client Sample ID: Tote 6
Date Collected: 10/18/18 09:00
Date Received: 10/20/18 10:20

Lab Sample ID: 500-153531-20
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	457783	11/01/18 00:20	PMF	TAL CHI
Total/NA	Analysis	8260B	DL	10	457783	11/01/18 00:50	PMF	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
TestAmerica Job ID: 500-153531-2
Project/Site: Keck Farm - WI - 25218118.00 Totes

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	08-31-19

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-153531

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler: 1.3

Report To (optional)	Bill To (optional)
Contact: Mike Prattke	Contact: Mike Prattke
Company: SCS Engineers	Company: SCS Engineers
Address: N84 W13540 Leon Rd	Address: N84 W13540 Leon Rd
Address: Menomonee Falls WI	Address: Menomonee Falls WI
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative	1								
SCS Engineers											
Project Name		Parameter	VOCs (8260B)								
Keck Farm											
Project Location/State	Lab Project #										
WI											
Sampler	Lab PM										
Charlie Bills											

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

500-153531 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix		Comments
1		MW-9	10/18/18	1020	3	GW	3	
2		MW-8		1050	3	GW	3	
3		MW-7		1100	3	GW	3	
4		PW-1C		1255	3	GW	3	
5		MW-1C		1546	3	GW	3	
6		MW-19C		1501	3	GW	3	
7		MW-4		1316	3	GW	3	
8		MW-3		1206	3	GW	3	
9		MW-5		1546	3	GW	3	
10		MW-26C		1116	3	GW	3	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other
Requested Due Date ____

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	SCS	10/19/18	1300		TA	10-19-18	1300
	TA	10-19-18	1700		TALLE	10/20/18	1820

Lab Courier
Shipped FX SAT Friday
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:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact: Mike Prattke
Company: SCS Engineers
Address: N84W13540 Leon Rd
Address: Menomonee Falls WI
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-153531
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 1.3

Client: SCS Engineers
Client Project #:
Project Name: Keck Farm
Project Location/State: WI
Lab Project #:
Sampler: Charlie Bills
Lab PM:
Preservative:
Parameter: VOC (8260 B)

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC (8260 B)	Comments
11		MW-6	10/18/18	1450	3	GW	3	
12		MW-28D	10/18/18	1359	3	GW	3	
13		MW-20C	10/18/18	1239	3	GW	3	
14		TB						
15		MW-28D Dup	10/18/18	1359	3	GW	3	
16		Tote 1	10/19/18	0840	3	GW	3	
17		Tote 2		0845	3	GW	3	
18		Tote 3		0850	3	GW	3	
19		Tote 4		0855	3	GW	3	
20		Tote 6		0900	3	GW	3	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard ____ Other
Requested Due Date ____

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Charlie Bills	SCS	10/19/18	1300		TA	10-19-18	1500
	TA	10-19-18	1700		TA/FS	10/20/18	1020

Lab Courier:
Shipped: FX SATURDAY
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:

TAL-4124-500 (1209)

1 - 48 qt

UNIVERSITY PARK IL 60484
534-5200
REF:
DEPT:

FedEx
Express
E

TRK# 0201 7125 4939 0379

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US ORD

500-153531 Waybill

1
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15

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-153531-2

Login Number: 153531
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
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	

From: Ralph Erickson <RalphE@madsewer.org>
Sent: Thursday, November 8, 2018 9:39 AM
To: Oelkers, Eric <EOelkers@scsengineers.com>
Subject: Keck purge water disposal

Eric,
The District can accept the three totes (1000 gal) of tested purge water from the Keck site. I calculate an average TCE concentration for the totes at 2.0 ppm. Mass calcs show TCE mass of 7.6 grams. I do not expect any adverse impacts to the treatment works or receiving waters.
The driver should log the material into our system under the LUST category.

TCE
Tote #2: 5.3 ppm 0.15 lb 6.7 g
#4: 0.17 ppm .0005 lb 0.2 g
#6 0.52 ppm .0014 lb 0.7 g

Ralph Erickson
Pretreatment & Waste Acceptance Coordinator
Madison Metropolitan Sewerage District
1610 Moorland Road • Madison, WI 53713-3398
P: 608-709-1859 • General: 608-222-1201
Email: ralphe@madsewer.org • madsewer.org

From: Oelkers, Eric [mailto:EOelkers@scsengineers.com]
Sent: Tuesday, November 06, 2018 5:10 PM
To: Ralph Erickson
Cc: Langdon, Robert
Subject: Purge water disposal

Hi Ralph,
Back in May we traded voice messages about purge water from the Keck farm site near Watertown. At the time you indicated that you could work with us on this if the local WWTP was unable to accept it. We have since confirmed that Watertown is unable to accept it.

We are doing this work under contract with DNR as it is considered an orphaned site, so cost is an issue. The site is not on the superfund list. The material is in totes right now. Two totes (1 and 3) have concentrations of TCE that exceed the threshold for the toxicity characteristic and we plan to use a licensed waste hauler to transport and dispose of this water. The other three totes (2, 4, and 6) have lower concentrations of TCE and related degradation products with traces of a few other VOCs (recent analytical report is attached). We would like to transport the water in totes 2, 4, and 6 (<1,000 gallons) to MMSD for disposal.

Please let me know if this is acceptable.

Eric Oelkers, PG*
Senior Project Manager / Hydrogeologist

SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718
608.224.2830
Direct: 608.216.7341 • Cell: 608.444.3934
eoelkers@scsengineers.com
www.scsengineers.com
*Licensed in Wisconsin

ENVIRONMENTAL SPECIALISTS LLC
N1015 COUNTY ROAD L
WATERTOWN, WI 53098

PHONE # (920) 261-4000 FAX # (920) 261-4011

Invoice

Date	Invoice #
11/9/2018	33373

Bill To
SCS ENGINEERS ROBERT LANGDON 2830 DAIRY LN. MADISON, WI 53718

P.O. No.	Terms	Project
SCS00002	Due on receipt	

Quantity	Description	Rate	Amount
1	SITE: W5797 FREITAG LN. WATERTOWN 53094 KECK FARM PUMPING OF LUST WATER FROM (3) TOTES @ APPX. 300 GALLONS EACH. 1000 TOTAL GALLONS. DISPOSAL SITE @ MADISON METROPOLITAN SEWERAGE DISTRICT	153.00	153.00
	Payment is due within 30 days. Past due invoices will be charged a finance charge of 1 1/2% per month (18% annually). Customer agrees to pay collection fees. For our protection a lien may be filed 60 days from the invoice date if unpaid.		
		Total	$153.00

Visit our website at www.envspec.com!
Please make all checks payable to Environmental Specialists LLC