January 27, 2021
File No. 25219179.00

Ms. Sarah Krueger
WDNR – NER
2984 Shawano Avenue
Green Bay, WI 54313

Subject: Summary of Groundwater and Vapor Sampling
Susie's Restaurant Site, 1020 S. 26th St., Manitowoc, WI
BRRTS #02-36-000516

Dear Ms. Krueger:

SCS Engineers (SCS) is providing the following summary of groundwater and vapor sampling for the Susie's Restaurant project site (**Figures 1** through **3**). The work was performed based on Wisconsin Department of Natural Resources (WDNR) Scope of Work (SOW) documents dated August 26, 2019, October 1, 2019, and March 3, 2020, and subsequent communications. Sampling methods and findings are summarized below.

GROUNDWATER SAMPLING

Groundwater sampling work was performed at the Golden Flame Family Restaurant property located at 2604 Custer Street (**Figure 2**). Work included collection of water samples from the basement sump and installation and sampling of monitoring well MW-3. Well construction documentation is provided in **Attachment A**. Laboratory analytical reports are included in **Attachment B**, and results, including results from prior sampling performed by others, are summarized in **Table 1**.

Sump Sampling

Water samples were collected from the Golden Flame Family Restaurant sump crock and sump discharge on October 2, 2019, while the sump pump was operating. A clean glass sampling cup was used to collect and transfer the water into laboratory-supplied sample bottles. A duplicate sample was collected from the sump discharge point and a trip blank was summited with the samples for quality control purposes. All samples were properly preserved and transported under chain of custody to Eurofins TestAmerica of University Park, Illinois (Eurofins), for analysis of volatile organic compounds (VOCs) via laboratory method 8260B.

VOCs including 1,1-dichloroethylene, cis-1,2-dichloroethylene (cis-1,2-DCE), trans-1,2-dichloroethylene (trans-1,2-DCE), toluene, trichloroethylene (TCE), and vinyl chloride were detected in the sump samples. The cis-1,2-DCE sample concentrations exceeded the NR 140 preventive action limit (PAL), and the TCE and vinyl chloride sample concentrations exceeded corresponding NR 140 PALs and enforcement standards (ESs).

The sump discharge duplicate sample concentration was consistent with the original sample concentration. VOCs were not detected in the trip blank sample.

Monitoring Well Installation and Sampling

Well Installation

Monitoring well MW-3 was installed on December 2, 2019, by On-site Environmental Services, Inc. of Sun Prairie, Wisconsin, using a direct push drill rig equipped with hollow stem augers. The work was performed under the supervision of an SCS hydrogeologist as summarized below. The well location is shown on **Figure 2**.

Continuous soil core samples were collected from the well location by advancing a 2-inch-diameter direct push core barrel equipped with plastic sample sleeves to a depth of 15.5 feet below ground surface (bgs). SCS documented soil conditions on a WDNR boring log consistent with the Unified Soil Classification System (USCS).

The well was constructed consistent with NR 141 well construction requirements using hollow stem auger drilling methods. SCS developed the monitoring well using the dedicated PVC bailer and surveyed the top of the well casing relative to the rim of manhole 7-146 (640.16 feet above mean sea level [amsl]), which is located approximately 160 feet to the south of well MW-3. The well was completed at ground surface with a steel flush-mount protective casing and locking well plug. A WDNR boring log, well construction form, and well development form are included in **Attachment A**. Site soils we classified as silty and poorly graded sands.

Soil cuttings and development water from the well installation work were contained in steel 55-gallon drums and temporarily stored on site prior to off-site disposal. Investigative waste disposal is described later in this report.

Monitoring Well Sampling

SCS measured water levels and collected groundwater samples from monitoring well MW-3 on February 11, 2020, and July 29, 2020. Water levels were measured relative to the top of the PVC well casing using a water level meter. Prior to sample collection, approximately four well casing volumes of water were purged from the well using the dedicated PVC bailer. Purge water was containerized in 55-gallon drums and temporarily stored on site for subsequent off-site disposal.

Groundwater samples were collected using the dedicated bailer and laboratory-supplied sample bottles. Trip blanks were submitted during each sampling event, and a duplicate sample was submitted during the February 11, 2020 sampling event. All samples were property preserved and submitted to Eurofins under chain of custody for laboratory analysis of VOCs via method 8260B. As requested by WDNR, the July 29, 2020 samples were analyzed for only tetrachloroethylene (PCE), TCE, cis-12-DCE, trans-1,2-DCE, and vinyl chloride.

Sampling Results

The depth to water at MW-3 was 7.29 feet (632.87 feet amsl) on February 11, 2020, and 7.05 feet (633.11 feet amsl) on July 29, 2020.

VOCs including cis-1,2-DCE, trans-1,2-DCE, and TCE were detected in the February 2020 MW-3 sample at concentrations less than NR 140 PALs. The same constituents were detected in the February 2020 MW-3 duplicate sample at similar concentrations; however, toluene was also detected at a concentration below the PAL. Other than cis-1,2-DCE, the constituents in February

2020 were reported as approximate concentrations less than the laboratory reporting limit (RL), but greater than or equal to the laboratory method detection limit (MDL).

TCE was the only constituent detected in the July 2020 MW-3 sample. The concentration was consistent with the February 2020 TCE concentration, was less than the PAL, and reported as an approximate concentration between the laboratory RL and MDL.

BUILDING VAPOR SAMPLING

Methods

SCS performed vapor intrusion assessment sampling for the following buildings in December 2019 and February 2020:

- 2614 Custer Street (residence)
- 2525 Washington Street (Gabriel Insurance)
- 2616 Washington Street (Marek Trucking)
- 1002 South 26th Street (Vacant commercial)

Vapor assessment sample locations are shown on **Figure 2**. Sampling was also performed for the Golden Flame Family Restaurant for the purpose of vapor mitigation system (VMS) commissioning. These results and additional VMS commissioning information is provided in a separate Interim Acton Report prepared by SCS. Sub-slab vapor intrusion assessment sampling was planned for 2164 Custer Street, 2616 Washington Street, and 1002 South 26th Street buildings; however, the presence of water in the sub-concrete slab material in these buildings prevented sample collection.

The work was performed consistent with the WDNR's RR-800 vapor intrusion guidance document and included collection of ambient indoor and outdoor (background) air samples and building sub-slab vapor samples. Ambient air samples were collected using laboratory supplied Summa canisters equipped with either 8-hour or 24-hour flow controllers for residential or commercial sample locations.

Sub-slab samples were collected from Vapor Pin™ (vapor pin) sample ports installed by SCS through the building floor slabs using a hand-held rotohammer. Prior to sample collection, the vapor pin seals and SCS's sample manifold were tested by water dam and vacuum shut-in tests to confirm there were no leaks. The ports were then purged using the vacuum of a photoionization detector (PID). Sub-slab vapor samples were collected using a laboratory-supplied Summa canister fitted to the SCS sample manifold and equipped with a 30-minute flow controller. All samples were submitted under chain of custody to Pace Analytical of Minneapolis, Minnesota, for analysis of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride via laboratory method TO-15.

Vapor assessment sample collection logs for each sample are included in **Attachment C**, and laboratory reports are provided in **Attachment B**. Historic analytical results are summarized in **Tables 2** and **3**. Results for samples collected by SCS in December 2019 and February 2020 are also summarized below.

Ambient Air Sampling Results

VOCs were not detected in indoor air samples collected from the residence at 2614 Custer Street (IA-1 and IA-2), the indoor air samples from the commercial building at 1002 South 26th Street (IA-8 and IA-9), or the outdoor air sample for the residence at 2614 Custer Street (OA-2).

TCE and/or PCE were detected in indoor air samples from 2525 Washington Street (IA-10) and 2616 Washington Street (IA-6 and IA-7) commercial buildings, but the concentrations did not exceed commercial indoor air vapor action levels (VALs). As noted above, sample results for the Golden Flame Family Restaurant indoor air samples (IA-3, IA-4, and IA-5) are discussed in the Interim Action Report.

Sub-Slab Vapor Sampling Results

VOCs were not detected in the December 2019 sub-slab sample from 2525 Washington Street (VP-9). PCE was detected in the February 2020 sub-slab sample, but the concentration did not exceed the commercial sub-slab vapor risk screening level (VRSL). No other VOCs were detected in the VP-9 samples.

Sub-Slab Port Abandonments

As requested by WDNR, sub-slab vapor pins for 2525 Washington Street (VP-9) and 2614 Custer Street (VP-1R) were removed and the holes were patched with concrete in July 2020. The VP-1 probe was abandoned in December 2019 as it had been damaged and was no longer useable.

SANITARY SEWER VAPOR SAMPLING

SCS collected vapor samples from nine sanitary sewer manholes. Manhole locations are shown on **Figure 3**. Manholes 7-139, 7-142, 7-143, 7-146, and 7-149 were sampled in December 2019. Manholes 7-149, 7-150, 7-159, 7-162, and 7-179 were sampled in July 2020.

Methods

The samples were collected consistent with the Department of Defense Environmental Security Technology Certification Program (ESTCP) guidance document. Samples were collected using laboratory-supplied Summa canisters connected to 0.25-inch-diameter polyethylene tubing. A brass tee fitting was installed on the tubing for vacuum shut-in leak testing and purging. New tubing and tee fittings were used for each sample.

Prior to sample collection, the end of the tubing was temporarily sealed using flexible silicon tubing and a plastic clamp. A vacuum was then applied at tee fitting using a hand-operated pump equipped with a vacuum gauge to check for leaks. After passing the vacuum shut-in test, the temporary silicon tubing and clamp were removed and the tubing was lowered to approximately 1 foot above the bottom of the manhole using a metal weight secured to the end of the tubing. A PID was then connected to the tee fitting and used to purge the tubing. The City of Manitowoc provided traffic control services for both sampling events.

Laboratory supplied 1-liter Summa canisters equipped with 5-minute flow controllers were used for the December 2019 sampling event. For the July 2020 sampling event the laboratory mistakenly shipped 6-liter Summa canisters equipped with 30-minute controllers. It was not discovered until the

day of the sampling that the larger Summa canisters had been supplied. To minimize the amount of time blocking off traffic, SCS removed the 30-minute controllers from the canisters and manually controlled flow into the canisters over an approximate 5-minute interval using the canister valve to control flow and the shut-in pump vacuum gage to periodically monitor canister vacuum.

All samples were submitted to Pace Analytical of Minneapolis, Minnesota, for analysis of VOCs via laboratory method TO-15. Laboratory reports are provided in **Attachment B**. Analytical results are summarized in **Table 4** and compared with sub-slab VRSLs as required by WDNR.

Results

Several VOCs were detected in the sanitary sewer vapor samples. The TCE concentrations for December 2019 samples from manholes 7-142 (Intersection S. 26th Street & Custer Street) and 7-149 (Intersection S. 26th Street & Marshall Street) exceeded the residential sub-slab VRSL. The December 2019 TCE concentration for manhole 7-149 also exceeded the commercial sub-slab VRSL. There were no exceedances for the July 2020 sampling event.

INVESTIGATION-DERIVED WASTE

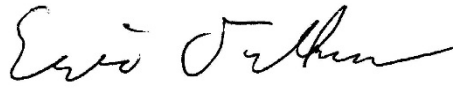
Waste disposal documentation is provided in **Attachment D**. Monitoring well development water, sample purge water, and soil cuttings generated during installation of monitoring well MW-3 were containerized in steel 55-gallon drums and temporarily stored at the Golden Flame Family Restaurant property. The drums were transported to SCS's office in Madison, Wisconsin, on July 29, 2020.

Monitoring well development and purge water was discharged to the Madison Metropolitan Sewerage District (MMSD) facility on August 28, 2020, with MMSD approval.

A waste profile sample was collected from the MW3 soil cuttings drum on December 2, 2019, and submitted to Pace Analytical of Green Bay, Wisconsin, for analysis of VOCs via method 8260B. The analytical report is included in **Attachment B**. TCE was detected at a concentration of 48.6 micrograms per kilogram. The drum was transported to Waste Management's Madison Prairie Landfill for disposal on October 6, 2020, under Waste Management Profile No. 134142WI. Waste disposal documentation is provided in **Attachment D**.

CERTIFICATION

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



Senior Hydrogeologist — Signature and title

January 27, 2021 — Date

Please contact Robert Langdon at (608) 212-3995 if you have any questions concerning this letter.

Sincerely,

Robert Langdon
Senior Project Manager
SCS Engineers

Eric Oelkers, PG
Senior Hydrogeologist
SCS Engineers

REL/AJR_lmh/MRH/EO

cc: Colin Schmenk, WDNR
Josie Schultz, WDNR

Attachments: Table 1 – Groundwater Analytical Results Summary
Table 2 - Indoor and Outdoor Air Analytical Results Summary
Table 3 - Sub-Slab Vapor Analytical Results Summary
Table 4 – Sanitary Sewer Vapor Analytical Results Summary
Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – Sanitary Sewer Map
Attachment A – Monitoring Well MW-3 Construction Documentation
Attachment B – Laboratory Analytical Reports
Attachment C – Vapor Sample Collection Logs
Attachment D – Waste Disposal Documentation

I:\25219179.00\Deliverables\Groundwater and Vapor Sampling Summary\210127_Krueger_Groundwater and Vapor Summary Report_Susie's Restaurant_Final.docx

Tables

Table 1. Groundwater Analytical Results Summary - VOCs
Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00
(Results are in µg/L)

Sample	Date	Lab Notes	DRO	GRO	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Methyl ethyl ketone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-Chloropropane (DBCP)
MW-1	7/17/2019	--	NA	NA	NA	<0.22	<0.44	NA	<0.33	<0.45	NA	NA	<0.71	<0.79	<0.25	NA	<0.31	<0.26	<0.61	<0.26	<0.54	<0.31	<0.26	<2.96
	8/6/2019	--	NA	NA	NA	<0.22	<0.44	NA	<0.33	<0.45	NA	NA	<0.71	<0.79	<0.25	NA	<0.31	<0.26	<0.61	<0.26	<0.54	<0.31	<0.26	<2.96
MW-2	7/17/2019	--	NA	NA	NA	<0.22	<0.44	NA	<0.33	<0.45	NA	NA	<0.71	<0.79	<0.25	NA	<0.31	<0.26	<0.61	<0.26	<0.54	<0.31	<0.26	<2.96
	8/6/2019	--	NA	NA	NA	<0.22	<0.44	NA	<0.33	<0.45	NA	NA	<0.71	<0.79	<0.25	NA	<0.31	<0.26	<0.61	<0.26	<0.54	<0.31	<0.26	<2.96
MW-3	2/11/2020	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
	2/11/2020 (Dup)	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
	7/29/2020	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Golden Flame Restaurant Basement Sump	8/7/2019	--	NA	NA	NA	<0.22	<0.44	NA	<0.33	<0.45	NA	NA	<0.71	<0.79	<0.25	NA	<0.31	<0.26	<0.61	<0.26	<0.54	<0.31	<0.26	<2.96
	10/2/2019	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
	10/2/2019 (Dup)	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
Golden Flame Restaurant Sump Discharge	10/2/2019	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
Trip Blank	10/2/2019	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
	2/11/2020	--	NA	NA	NA	<0.15	<0.36	<0.43	<0.37	<0.48	<0.80	NA	<0.39	<0.40	<0.40	NA	<0.38	<0.39	<0.51	<0.37	<0.32	<0.31	<0.35	<2.0
	7/29/2020	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 Enforcement Standards			NE	NE	9,000	5	NE	NE	0.6	4.4	10	4,000	NE	NE	NE	1,000	5	100	400	6	30	NE	NE	0.2
NR 140 Preventive Action Limits			NE	NE	1,800	0.5	NE	NE	0.06	0.44	1	800	NE	NE	NE	200	0.5	20	80	0.6	3	NE	NE	0.02
CAS No.					67-64-1	71-43-2	108-86-1	74-97-5	75-27-4	75-25-2	74-83-9	78-93-3	104-51-8	135-98-8	98-06-6	75-15-0	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	95-49-8	106-43-4	96-12-8

Table 1. Groundwater Analytical Results Summary - VOCs
Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00
(Results are in µg/L)

Sample	Date	Lab Notes	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	2-Hexanone
MW-1	7/17/2019	--	<0.22	<0.34	NA	<0.86	<0.85	<0.7	<0.32	<0.36	<0.25	<0.42	<0.37	<0.34	<0.44	<0.3	NA	NA	<0.26	<0.32	<0.21	<0.26	<1.34	NA
	8/6/2019	--	<0.22	<0.34	NA	<0.86	<0.85	<0.7	<0.32	<0.36	<0.25	<0.42	<0.37	<0.34	<0.44	<0.3	NA	NA	<0.26	<0.32	<0.21	<0.26	<1.34	NA
MW-2	7/17/2019	--	<0.22	<0.34	NA	<0.86	<0.85	<0.7	<0.32	<0.36	<0.25	<0.42	<0.37	<0.34	<0.44	<0.3	NA	NA	<0.26	<0.32	<0.21	<0.26	<1.34	NA
	8/6/2019	--	<0.22	<0.34	NA	<0.86	<0.85	<0.7	<0.32	<0.36	<0.25	<0.42	<0.37	<0.34	<0.44	<0.3	NA	NA	<0.26	<0.32	<0.21	<0.26	<1.34	NA
MW-3	2/11/2020	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.39	2.8	0.41 J2	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
	2/11/2020 (Dup)	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.39	2.8	0.43 J2	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
	7/29/2020	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.41	<0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Golden Flame Restaurant Basement Sump	8/7/2019	--	<0.22	<0.34	NA	<0.86	<0.85	<0.7	<0.32	<0.36	<0.25	<0.42	***23.5***	3.4	<0.44	<0.3	NA	NA	<0.26	<0.32	<0.21	<0.26	<1.34	NA
	10/2/2019	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	0.51 J2	***43***	5.0	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
	10/2/2019 (Dup)	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	0.46 J2	***40***	4.2	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
Golden Flame Restaurant Sump Discharge	10/2/2019	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	0.46 J2	***31***	3.1	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
Trip Blank	10/2/2019	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.39	<0.41	<0.35	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
	2/11/2020	--	<0.49	<0.39	<0.27	<0.33	<0.40	<0.36	<0.67	<0.41	<0.39	<0.39	<0.41	<0.35	<0.43	<0.36	<0.44	<0.30	<0.42	<0.36	<0.28	<0.18	<0.45	NA
	7/29/2020	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.41	<0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 Enforcement Standards			60	0.05	NE	600	600	75	1,000	850	5	7	70	100	5	NE	NE	NE	0.4	0.4	NE	700	NE	NE
NR 140 Preventive Action Limits			6	0.005	NE	60	120	15	200	85	0.5	0.7	7	20	0.5	NE	NE	NE	0.04	0.04	NE	140	NE	NE
CAS No.			124-48-1	106-93-4	74-95-3	95-50-1	541-73-1	106-46-7	75-71-8	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	78-87-5	142-28-9	594-20-7	563-58-6	10061-01-5	10061-02-6	108-20-3	100-41-4	87-68-3	591-78-6

Table 1. Groundwater Analytical Results Summary - VOCs
Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00
(Results are in µg/L)

Sample	Date	Lab Notes	Isopropylbenzene (Cumene)	p-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	Tetrahydrofuran	Tetrachloroethylene	1,1,2,2-Tetrachloroethane	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	Trimethylbenzenes (TMBs)	Vinyl acetate	Vinyl Chloride	Xylenes
MW-1	7/17/2019	--	<0.78	<0.24	NA	<1.32	<0.28	<2.1	<0.61	NA	<0.35	NA	<0.38	<0.3	<0.19	<1.71	<1.15	<0.33	<0.42	<0.3	<0.35	NA	<1.43	NA	<0.2	<0.72
	8/6/2019	--	<0.78	<0.24	NA	<1.32	<0.28	<2.1	<0.61	NA	<0.35	NA	<0.38	<0.3	<0.19	<1.71	<1.15	<0.33	<0.42	<0.3	<0.35	NA	<1.43	NA	<0.2	<0.72
MW-2	7/17/2019	--	<0.78	<0.24	NA	<1.32	<0.28	<2.1	<0.61	NA	<0.35	NA	<0.38	<0.3	<0.19	<1.71	<1.15	<0.33	<0.42	<0.3	<0.35	NA	<1.43	NA	<0.2	<0.72
	8/6/2019	--	<0.78	<0.24	NA	<1.32	<0.28	<2.1	<0.61	NA	<0.35	NA	<0.38	<0.3	<0.19	<1.71	<1.15	<0.33	<0.42	<0.3	<0.35	NA	<1.43	NA	<0.2	<0.72
MW-3	2/11/2020	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	<0.15	<0.46	<0.34	<0.38	<0.35	0.23 J2	<0.43	<0.41	<0.61	NA	<0.20	<0.22
	2/11/2020 (Dup)	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	0.15 J2	<0.46	<0.34	<0.38	<0.35	0.48 J2	<0.43	<0.41	<0.61	NA	<0.20	<0.22
	7/29/2020	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.37	NA	NA	NA	NA	NA	NA	0.36 J2	NA	NA	NA	NA	<0.20	NA
Golden Flame Restaurant Basement Sump	8/7/2019	--	<0.78	0.31 J1	NA	<1.32	<0.28	<2.1	<0.61	NA	<0.35	NA	<0.38	<0.3	1.94	<1.71	<1.15	<0.33	<0.42	**5.3**	<0.35	NA	<1.43	NA	**0.2** J1	<0.72
	10/2/2019	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	0.44 J2	<0.46	<0.34	<0.38	<0.35	**8.8**	<0.43	<0.41	<0.61	NA	**3.4**	<0.22
	10/2/2019 (Dup)	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	0.42 J2	<0.46	<0.34	<0.38	<0.35	**7.8**	<0.43	<0.41	<0.61	NA	**2.9**	<0.22
Golden Flame Restaurant Sump Discharge	10/2/2019	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	0.35 J2	<0.46	<0.34	<0.38	<0.35	**5.8**	<0.43	<0.41	<0.61	NA	**2.2**	<0.22
Trip Blank	10/2/2019	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	<0.15	<0.46	<0.34	<0.38	<0.35	<0.16	<0.43	<0.41	<0.61	NA	<0.20	<0.22
	2/11/2020	--	<0.39	<0.36	NA	<1.6	<0.39	<0.34	<0.41	<0.39	<0.46	NA	<0.37	<0.40	<0.15	<0.46	<0.34	<0.38	<0.35	<0.16	<0.43	<0.41	<0.61	NA	<0.20	<0.22
	7/29/2020	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.37	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	<0.20	NA
NR 140 Enforcement Standards			NE	NE	500	5	60	100	NE	100	70	50	5	0.2	800	NE	70	200	5	5	3,490	60	480	NE	0.2	2,000
NR 140 Preventive Action Limits			NE	NE	50	0.5	12	10	NE	10	7	10	0.5	0.02	160	NE	14	40	0.5	0.5	698	12	96	NE	0.02	400
CAS No.			98-82-8	99-87-6	108-10-1	75-09-2	1634-04-4	91-20-3	103-65-1	100-42-5	630-20-6	109-99-9	127-18-4	79-34-5	108-88-3	87-61-6	120-82-1	71-55-6	79-00-5	79-01-6	75-69-4	96-18-4	See Notes	108-05-4	75-01-4	1330−20−7 (See Notes)

Abbreviations:
µg/ L = micrograms per liter or parts per billion (ppb)
TMBs = 1,2,4- and 1,3,5-trimethylbenzenes
VOCs = Volatile Organic Compounds
MTBE = Methyl-tert-butyl ether

NA = Not Analyzed
(Dup) = Duplicate Sample
-- = Not Applicable

ND = Not Detected
NE = No Standard Established

Created by: AJR Date: 10/23/2019
Last revision by: AJR Date: 8/14/2020
Checked by: LMH Date: 8/17/2020
Proj Mgr QA/QC: REL Date: 8/20/2020

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.

Laboratory Notes/Qualifiers:
J1 = Analyte detected between Limit of Detection and Limit of Quantitation.
J2 = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

Table 2. Indoor and Outdoor Air Analytical Results Summary
Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00
(Results are in µg/m^3)

Sample	Location	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Benzene	Carbon Tetrachloride	Chloroform	Chloromethane	Dichlorodifluoro-methane	1,2-Dichloroethane (1,2-DCA)	Ethylbenzene	Naphthalene	Toluene	Trichlorofluoro-methane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m-Xylene & p-Xylene	o-Xylene
CAS #	--	--	127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3	74-87-3	75-71-8	107-06-2	100-41-4	91-20-3	108-88-3	75-69-4	95-63-6	108-67-8	179601-23-1	95-47-7
IA-1	Residence 2614 Custer (Basement)	7/17/2019	<0.278	<0.237	<0.197	<0.231	<0.148	0.96	0.44 J	0.44 J	1.3 J	2.67	<0.24	1	<0.675	2.22	1.46	1.52	0.44 J	2.21	0.43 J
		8/7/2019	<0.278	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	NA	NA	<0.24	NA	NA	NA	NA	NA	NA	NA	NA
		12/3/2019	<0.57	<0.46	<0.40	<0.52	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-2	Residence 2614 Custer (1st Floor Living Room)	7/17/2019	<0.278	0.37 J	<0.197	<0.231	<0.148	0.57	0.5 J	**3.9**	1.73 J	2.62	<0.24	0.78	**0.89** J	2.56	2.47	0.83 J	0.245 J	1.78	0.52 J
		8/7/2019	<0.278	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	NA	NA	<0.24	NA	NA	NA	NA	NA	NA	NA	NA
		12/3/2019	<0.57	<0.46	<0.40	<0.52	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-3	Golden Flame Restaurant 2604 Custer (Basement)	8/7/2019	1.02	**4**	5.5	1.03	0.23 J	NA	NA	NA	NA	NA	**1.25**	NA	NA	NA	NA	NA	NA	NA	NA
		12/3/2019	0.98 J	**4.1**	2.0	0.44 J	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	0.52 J	0.89	0.53 J	<0.46	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-4	Golden Flame Restaurant 2604 Custer (Mens' Restroom)	8/7/2019	<0.278	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	NA	NA	<0.24	NA	NA	NA	NA	NA	NA	NA	NA
		12/3/2019	<0.47	<0.38	<0.33	<0.42	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	0.57 J	<0.44	<0.38	<0.50	<0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-5	Golden Flame Restaurant 2604 Custer (1st Floor)	8/7/2019	<0.278	<0.237	0.44 J	<0.231	<0.148	NA	NA	NA	NA	NA	<0.24	NA	NA	NA	NA	NA	NA	NA	NA
		12/3/2019	<0.45	<0.36	<0.32	<0.41	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	0.75 J	<0.43	<0.37	<0.48	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-6	2616 Washington (Upstairs)	12/3/2019	0.68 J	0.55 J	<0.35	<0.46	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	0.66 J	<0.44	<0.38	<0.50	<0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-7	2616 Washington (Downstairs)	12/3/2019	0.61 J	0.66 J	<0.35	<0.46	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	0.73 J	<0.43	<0.37	<0.48	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-8	1002 S. 26th (Upstairs)	12/3/2019	<0.45	<0.36	<0.32	<0.41	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	<0.53	<0.43	<0.37	<0.48	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-9	1002 S. 26th (Downstairs)	12/3/2019	<0.45	<0.36	<0.32	<0.41	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	<0.53	<0.43	<0.37	<0.48	<0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
IA-10	2525 Washington	12/3/2019	<0.51	<0.41	<0.35	<0.46	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/11/2020	2.1	<0.35	<0.30	<0.40	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OA-1	Golden Flame Restaurant 2604 Custer (W/NW Corner of Building)	8/7/2019	<0.278	<0.237	0.44 J	<0.231	<0.148	NA	NA	NA	NA	NA	<0.24	NA	NA	NA	NA	NA	NA	NA	NA
OA-2	Residence 2614 Custer (NW Corner of Building)	2/11/2020	<0.47	<0.38	<0.33	<0.42	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Residential Indoor Air Vapor Action Level			42	2.1	NE	NE	1.7	3.6	4.7	1.2	94	100	1.1	11	0.83	5,200	NE	63	63	100	100
Small Commercial Indoor Air Vapor Action Level			180	8.8	NE	NE	28	16	20	5.3	390	440	4.7	49	3.6	22,000	NE	260	260	440	440
Large Commercial/Industrial Indoor Air Vapor Action Level			180	8.8	NE	NE	28	16	20	5.3	390	440	4.7	49	3.6	22,000	NE	260	260	440	440

Abbreviations:
µg/m^3 = micrograms per cubic meter of air
CAS # = Chemical Abstracts Service Number
cis-1,2-DCE = cis-1,2-dichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
NA = Not Analyzed
NE = No Established Vapor Risk Screening Level
IA = Indoor Air Sample
OA = Outdoor Air Sample

Notes:
1. Samples were collected in 6-liter summa canisters over 8-hour period for commercial buildings and 24-hour period for residential buildings. Samples were analyzed using the US EPA TO-15 analytical method.
2. Indoor air Vapor Action Levels (VALs) from Wisconsin Department of Natural Resources (WDNR) WI Vapor Quick Look-Up Table, based on November 2017 US EPA Regional Screening Levels.
3. **Bold+underlined** values meet or exceed residential indoor air VALs.
4. **Bold+double underlined** values meet or exceed commercial indoor air VALs.

7/17/2019 and 8/7/2019 samples collected by General Engineering Company.
12/3/2019 and 2/11/2020 samples collected by SCS Engineers.

Laboratory Notes/Qualifiers:
J = Estimated concentration at or above the LOD and below the LOQ.

Created by: LMH Date: 12/20/2019
Last Rev by: LMH Date: 2/19/2020
Checked by: AJR Date: 2/20/2020
Proj Mgr QA/QC: REL Date: 9/8/2020

I:\25219179.00\Data and Calculations\Tables\[Table 2 - Indoor and Outdoor Air Analytical Results Summary.xlsx]Vapor Intrusion

Table 3. Sub-Slab Vapor Analytical Results Summary
Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00
(Results are in µg/m^3)

Sample	Location	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Benzene	Chloroform	Dichlorodifluoro-methane	1,1 Dichloroethene (1,1-DCE)	Ethylbenzene	Naphthalene	Toluene	1,1,1-Trichloroethane (1,1,1-TCA)	Trichlorofluoro-methane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m-Xylene & p-Xylene	o-Xylene
CAS #	--	--	127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	67-66-3	75-71-8	75-35-4	100-41-4	91-20-3	108-88-3	71-55-6	75-69-4	95-63-6	108-67-8	179601-23-1	95-47-7
VP-1	Residence 2614 Custer (Basement)	7/18/2019	8.5	5.5	0.40 J	0.238 J	<0.148	8.4	0.63 J	3.02	<0.21	8.5	2.56	38	0.65 J	1.24	12.5	3.09	23.8	9.9
		8/7/2019	1.15	3.6	<0.197	<0.231	0.36 J	NA	NA	NA	<0.21	NA	NA	NA	0.65 J	NA	NA	NA	NA	NA
VP-2	Golden Flame Restaurant 2604 Custer (Basement)	7/18/2019	117	**1,160**	2,360	135	10.2 J	4 J	<7.5	<6.575	<5.25	7.6 J	<16.875	24.5	<6.225	<8.425	13.5 J	<5.8	19.5 J	8.7 J
		8/7/2019	141	**1,430**	2,280	212	5.4	NA	NA	NA	17	NA	NA	NA	<2.49	NA	NA	NA	NA	NA
VP-3	David's House of Travel 1029 S. 26th (Basement)	7/18/2019	1.97	<0.237	<0.197	<0.231	0.33 J	3.6	0.54 J	6.9	<0.21	7.8	3.9	53	<0.249	2.02	11.9	2.7	26.2	10.5
		8/7/2019	3.9	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	<0.21	NA	NA	NA	<0.249	NA	NA	NA	NA	NA
VP-4	Custer Street Automotive 1015 S. 26th (First Floor of Shop)	7/18/2019	187	3.6	3.01	<0.231	0.49	14.5	0.34 J	*4,900*	<0.21	20.3	15.7	70	1.14	1.46	51	12.3	66	26.7
		8/7/2019	105	2.09	<0.197	<0.231	<0.148	NA	NA	NA	<0.21	NA	NA	NA	1.25	NA	NA	NA	NA	NA
VP-5	Shop 1025 S. 26th (First Floor of Shop)	7/18/2019	33	<0.237	<0.197	<0.231	0.41 J	13.7	<0.3	4.5	<0.21	18.9	6.9	71	<0.249	1.4	43	12	50	21
		8/7/2019	24.4	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	<0.21	NA	NA	NA	<0.249	NA	NA	NA	NA	NA
VP-6	Autowerks 1037 S. 26th (First Floor of Shop)	8/6/2019	9.6	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	<0.21	NA	NA	NA	<0.249	NA	NA	NA	NA	NA
		8/28/2019	0.41 J	<0.237	<0.197	<0.231	<0.148	NA	NA	NA	<0.21	NA	NA	NA	<0.249	NA	NA	NA	NA	NA
VP-9	2525 Washington	12/4/2019	<0.51	<0.41	<0.35	<0.46	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2/12/2020	1.4	<0.46	<0.40	<0.52	<0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Residential Indoor Air Vapor Action Level			42	2.1	NE	NE	1.7	3.6	1.2	100	210	11	0.83	5,200	5,200	NE	63	63	100	100
Residential Sub-Slab Vapor Risk Screening Level			1,400	70	NE	NE	57	120	40	3,300	7,000	370	28	170,000	170,000	NE	2,100	2,100	3,300	3,300
Small Commercial Sub-Slab Vapor Risk Screening Level			6,000	290	NE	NE	930	530	180	15,000	29,000	1,600	120	730,000	730,000	NE	8,700	8,700	15,000	15,000
Large Commercial/Industrial Sub-Slab Vapor Risk Screening Level			18,000	880	NE	NE	2,800	1,600	530	44,000	88,000	4,900	360	2,200,000	2,200,000	NE	26,000	26,000	44,000	44,000

Abbreviations:
µg/m^3 = micrograms per cubic meter of air
CAS # = Chemical Abstracts Service Number
cis-1,2-DCE = cis-1,2-dichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
NA = Not Analyzed
NE = No Established Vapor Risk Screening Level

Notes:
1. Samples were collected in 6-liter summa canisters over 1-hour or 30-minute period and analyzed using the US EPA TO-15 analytical method.
2. Sub-slab Vapor Risk Screening Levels (VRSLs) from Wisconsin Department of Natural Resources (WDNR) WI Vapor Quick Look-Up Table, based on November 2017 US EPA Regional Screening Levels.
3. *Italic+underlined* values meet or exceed Residential Sub-Slab VRSLs.
4. **Bold+underlined** values meet or exceed small commercial sub-slab VRSLs.
5. **Bold+double underlined** values meet or exceed large commercial/industrial sub-slab VRSLs.

7/18/2019, 8/6/2019, 8/7/2019, and 8/28/2019 samples collected by General Engineering Company.
12/4/2019 and 2/12/2020 samples collected by SCS Engineers.

Laboratory Notes/Qualifiers:
J = Analyte detected between LOD and LOQ

Created by: LMH Date: 12/20/2019
Last Rev by: LMH Date: 2/19/2020
Checked by: AJR Date: 2/20/2020
Proj Mgr QA/QC: REL Date: 9/8/2020

I:\25219179.00\Data and Calculations\Tables\[Table 3 - Sub-Slab Analytical Results Summary.xlsx]Revision History

Table 4. Sanitary Sewer Vapor Analytical Results Summary
Susie's Restaurant - Manitowoc, Wisconsin / SCS Engineers Project #25219179.00
(Results are in µg/m^3)

Sample	Location	PID (ppb)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Other VOCs
CAS #	--		--	127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	
MH 7-139	Intersection S. 26th & Washington	0	12/3/2019	12.9	7.9	6.1	1.3 J	<0.25	NA
MH 7-142	Intersection S. 26th & Custer	0	12/3/2019	43.4	**74.0**	37.3	8.4	1.9	NA
MH 7-143	Intersection S. 25th & Washington	0	12/3/2019	<0.59	<0.47	<0.41	<0.53	<0.24	NA
MH 7-146	Median Between Custer and Calumet	0	12/3/2019	41.9	<0.49	<0.42	<0.55	<0.24	NA
MH 7-149	Intersection S. 26th & Marshall	23	12/3/2019	2.3	**371**	179	38.0	7.7	NA
		458	7/29/2020	3.9	51.7	44.6	7.9	0.87	NA
MH 7-150	Between of 1121 & 1122 S. 26th	315	7/29/2020	<0.52	2.9	1.3 J	0.34 J	<0.18	NA
MH 7-159	Intersection S. 25th & Marshall	348	7/29/2020	0.57 J	5.5	0.62 J	0.75 J	<0.17	NA
MH 7-162	Between 1122 & 1123 S. 25th	328	7/29/2020	1.2	<0.28	<0.26	<0.27	<0.16	NA
MH 7-179	Intersection S. 24th & Marshall	265	7/29/2020	1.8	0.58 J	<0.28	<0.29	<0.17	NA
Residential Sub-Slab Vapor Risk Screening Level				1,400	70	NE	NE	57	
Small Commercial Sub-Slab Vapor Risk Screening Level				6,000	290	NE	NE	930	
Large Commercial/Industrial Vapor Risk Screening Level				18,000	880	NE	NE	2,800	

Abbreviations:
µg/m^3 = micrograms per cubic meter of air
CAS # = Chemical Abstracts Service Number
PID = photoionization detector
trans-1,2-DCE = trans-1,2-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
ppb = part per billion instrument units
NE = No Established Vapor Risk Screening Level
NA = Not Analyzed

Notes:
1. Samples were collected in 1-liter summa canisters over 5-minute period and analyzed using the US EPA TO-15 analytical method.
2. Sub-Slab Vapor Risk Screening Levels (VRSLs) from Wisconsin Department of Natural Resources (WDNR) WI Vapor Quick Look-Up Table, Based on November 2017 U.S.EPA Regional Screening Levels.
3. **Bold+underlined** values meet or exceed residential sub-slab VRSLs.
4. **Bold+double underlined** values meet or exceed small commercial sub-slab VRSLs.

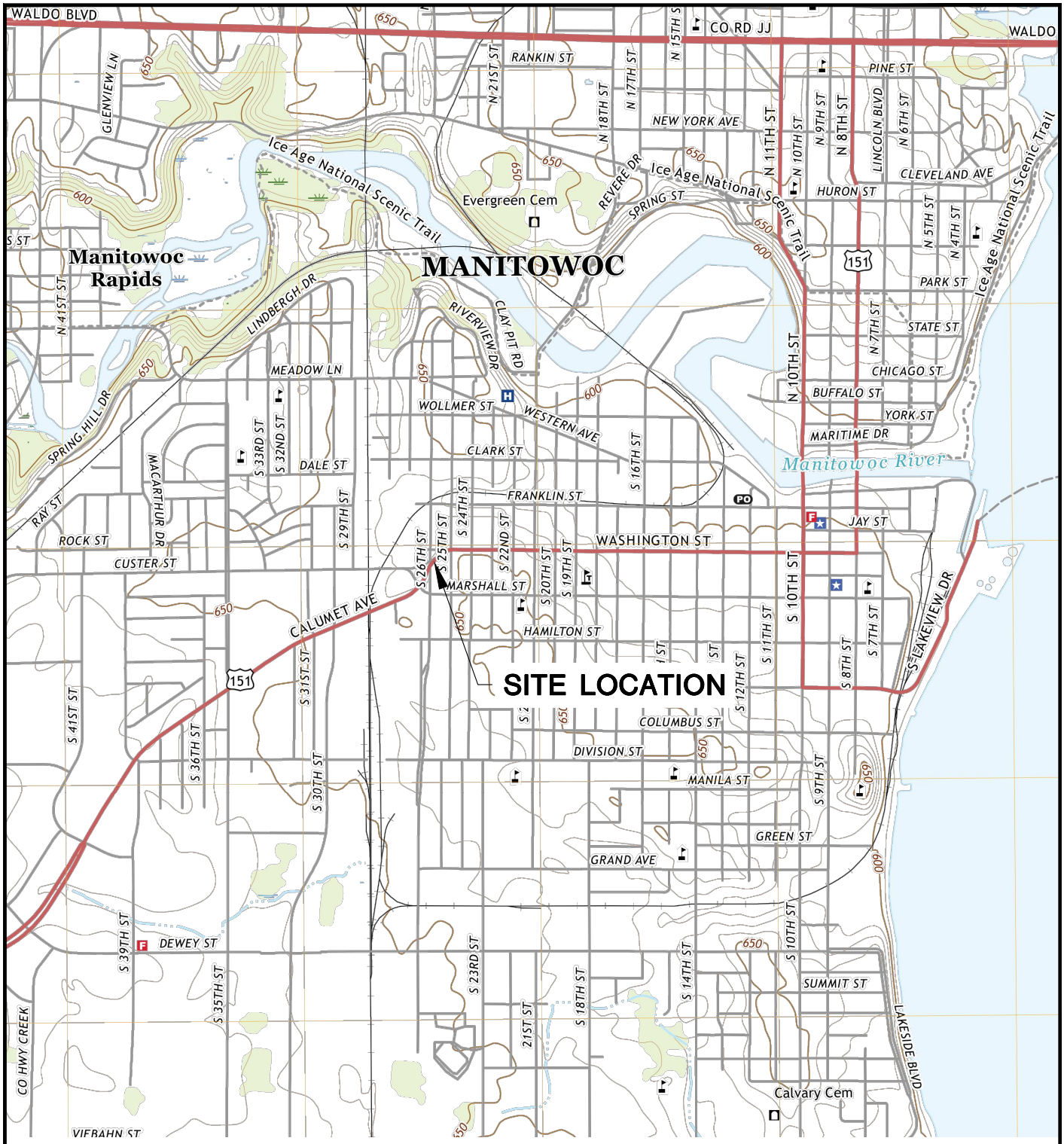
12/3/2019 and 7/29/2020 samples collected by SCS Engineers.

Laboratory Notes/Qualifiers:
J = Estimated concentration at or above the LOD and below the LOQ.

Created by: LMH Date: 12/20/2019
Last Rev by: REL Date: 1/20/2021
Checked by: LMH Date: 1/21/2021
Proj Mgr QA/QC: REL Date: 1/22/2021

I:\25219179.00\Data and Calculations\Tables\[Table 4 - Sanitary Sewer Vapor Analytical Results Summary.xlsx]Vapor Intrusion

Figures



N

MANITOWOC QUADRANGLE
WISCONSIN–MANITOWOC CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018
SCALE: 1" = 2,000'

CLIENT	WISCONSIN DEPARTMENT OF NATURAL RESOURCES 2984 SHAWANO AVENUE GREEN BAY, WI 54313	SITE	SUSIE'S RESTAURANT–LGU–WIDOT 1020 SOUTH 26TH STREET MANITOWOC, WISCONSIN

SITE LOCATION MAP

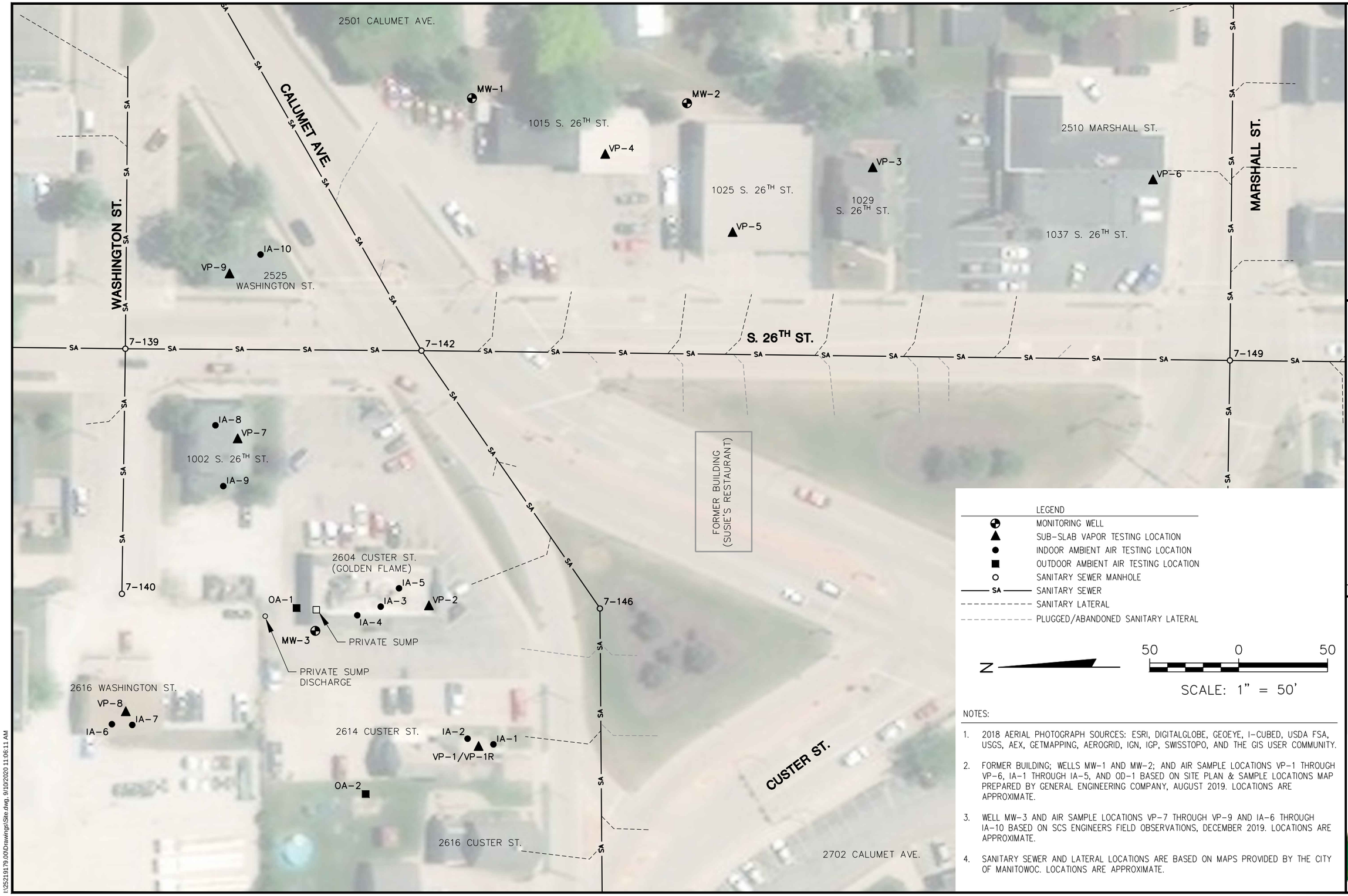
PROJECT NO.	25219179.00	DRAWN BY:	KP
DRAWN:	01/30/2020	CHECKED BY:	REL
REVISED:	01/30/2020	APPROVED BY:	REL 08/27/2020

ENGINEER

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

FIGURE 1

I:\25219179.00\Drawings\Site Location.dwg, 8/27/2020 1:35:11 PM



LEGEND

- MONITORING WELL
- SUB-SLAB VAPOR TESTING LOCATION
- INDOOR AMBIENT AIR TESTING LOCATION
- OUTDOOR AMBIENT AIR TESTING LOCATION
- SANITARY SEWER MANHOLE
- SA — SANITARY SEWER
- SANITARY LATERAL
- PLUGGED/ABANDONED SANITARY LATERAL

N

50 0 50

SCALE: 1" = 50'

NOTES:

1. 2018 AERIAL PHOTOGRAPH SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA FSA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
2. FORMER BUILDING; WELLS MW-1 AND MW-2; AND AIR SAMPLE LOCATIONS VP-1 THROUGH VP-6, IA-1 THROUGH IA-5, AND OD-1 BASED ON SITE PLAN & SAMPLE LOCATIONS MAP PREPARED BY GENERAL ENGINEERING COMPANY, AUGUST 2019. LOCATIONS ARE APPROXIMATE.
3. WELL MW-3 AND AIR SAMPLE LOCATIONS VP-7 THROUGH VP-9 AND IA-6 THROUGH IA-10 BASED ON SCS ENGINEERS FIELD OBSERVATIONS, DECEMBER 2019. LOCATIONS ARE APPROXIMATE.
4. SANITARY SEWER AND LATERAL LOCATIONS ARE BASED ON MAPS PROVIDED BY THE CITY OF MANITOWOC. LOCATIONS ARE APPROXIMATE.

SITE

SITE PLAN

SUSIE'S RESTAURANT-LGU-WIDOT
1020 SOUTH 26TH STREET
MANITOWOC, WISCONSIN

CLIENT

WISCONSIN DEPARTMENT OF
NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313

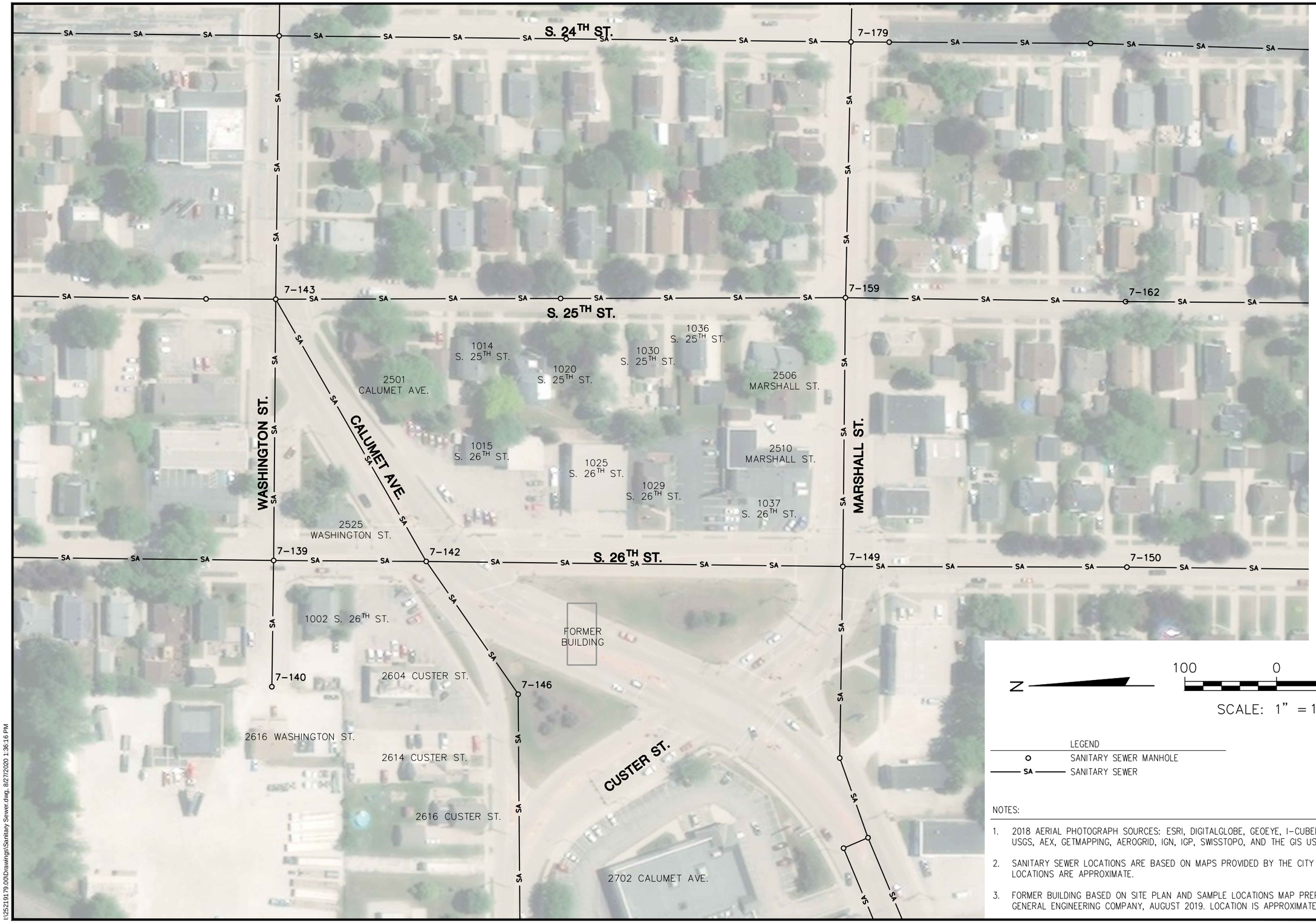
FIGURE 2

ENGINEER

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

PROJECT NO.	25219179.00	
DRAWN:	01/30/2020	DRAWN BY: KP
REVISED:	09/08/2020	CHECKED BY: REL
		APPROVED BY: REL 09/08/2020

I:\25219179.00\Drawings\Site.dwg, 9/10/2020 11:06:11 AM



NOTES:

1. 2018 AERIAL PHOTOGRAPH SOURCES: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA FSA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY.
2. SANITARY SEWER LOCATIONS ARE BASED ON MAPS PROVIDED BY THE CITY OF MANITOWOC. LOCATIONS ARE APPROXIMATE.
3. FORMER BUILDING BASED ON SITE PLAN AND SAMPLE LOCATIONS MAP PREPARED BY GENERAL ENGINEERING COMPANY, AUGUST 2019. LOCATION IS APPROXIMATE.

SANITARY SEWER MAP

SITE

SUSIE'S RESTAURANT-LGU-WIDOT
1020 SOUTH 26TH STREET
MANITOWOC, WISCONSIN

CLIENT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313

FIGURE 3

ENGINEER

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

PROJECT NO.	25219179.00
DRAWN:	01/30/2020
REVISED:	08/27/2020
DRAWN BY:	KP
CHECKED BY:	REL
APPROVED BY:	REL 08/27/2020

I:\25219179.00\Drawings\Sanitary Sewer.dwg, 8/27/2020 1:36:16 PM

Attachment A

Monitoring Well MW-3 Construction Documentation

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Susie's Restaurant SCS#: 25219179.00		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-site Envionmental Services, Inc.	12/2/2019	12/2/2019	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VV836		MW-3	Feet	640.10 Feet	8.3 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
SE 1/4 of NE 1/4 of Section 25, T 19 N, R 23
Lat 44° 88' 723.00" Long -87° 680' 848.00"
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
436109410	Manitowoc	36	Manitowoc

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Asphalt, 3-4" thick.										
S1	32		1	POORLY GRADED SAND, with silt and gravel, (fill).	SP			0.0		M				
S2			4	SILTY SAND, fine to medium, brown and gray.	SM			0.0		M				
S3			6	SILTY SAND, fine, dark gray.	SM			0.0		M				
S4	30		7	POORLY GRADED SAND with fine gravel, fine to medium, pale brown.				0.0		W				
S5			11		SP			0.0		W				
S6	52		14					0.0		W				
			15	End of Boring at 15.5 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS Engineers Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

SCS # 25219179.00

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Susie's Restaurant	Local Grid Location of Well: ___ ft. ☐N ☐S, ___ ft. ☐E ☐W	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 44° 088' 723" Long. -87° 680' 848" or	Wis. Unique Well No.: VV837 / DNR Well ID No.:
Facility ID: 436109410	St. Plane ___ ft. N, ___ ft. E. S/C/N	Date Well Installed: 12 / 02 / 2019 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: SE 1/4 of NE 1/4 of Sec. 25, T. 19 N, R. 23 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Tony Kapugi; On-site Environmental Services, Inc.
Distance from Waste/Source ___ ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 640.1 ft. MSL
B. Well casing, top elevation 639.92 ft. MSL
C. Land surface elevation 640.1 ft. MSL
D. Surface seal, bottom 639.25 ft. MSL or 0.85 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ ___

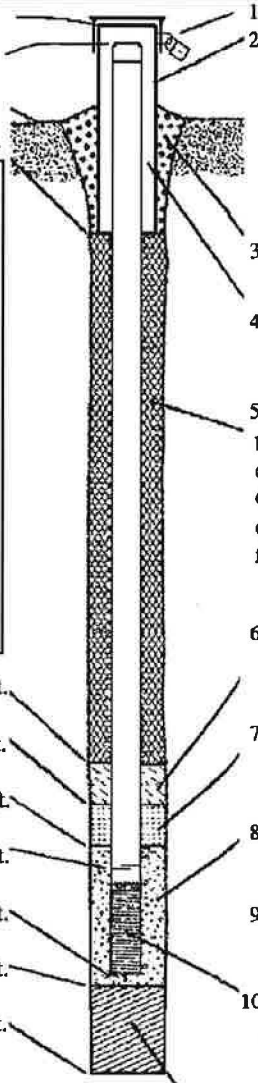
15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe: --

17. Source of water (attach analysis, if required):
--

E. Bentonite seal, top 639.25 ft. MSL or 0.85 ft.
F. Fine sand, top 636.6 ft. MSL or 3.5 ft.
G. Filter pack, top 636.1 ft. MSL or 4.0 ft.
H. Screen joint, top 635.1 ft. MSL or 5.0 ft.
I. Well bottom 625.1 ft. MSL or 15.0 ft.
J. Filter pack, bottom 624.6 ft. MSL or 15.5 ft.
K. Borehole, bottom 624.6 ft. MSL or 15.5 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ ___
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ___
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ___
4. Material between well casing and protective pipe: Bentonite ☐ 30 / Sand / Other ☒ ___
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ___ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ___ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ___ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1.5 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. ___ Other ☐ ___
7. Fine sand material: Manufacturer, product name & mesh size ☒
a. Sidley Ohio 30/100
b. Volume added 0.2 ft³
8. Filter pack material: Manufacturer, product name & mesh size ☒
a. Sidley Ohio #5
b. Volume added 2 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ___
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ___
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ___

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Eric Tilka
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

SCS # 25219179.00

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Susie's Restaurant	Manitowoc	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
436109410	36	VV837	

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☒	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well: 109 min.

4. Depth of well (from top of well casisng): 15.0 ft.

5. Inside diameter of well: 2.07 in.

6. Volume of water in filter pack and well casing: 7.4 gal.

7. Volume of water removed from well: 75.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: NA

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.98 ft.	6.98 ft.
Date	b. 12/02/2019	12/02/2019
Time	c. 11:09 ☒ a.m. ☐ p.m.	12:58 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) cloudy, brown	Clear ☐ 20 Turbid ☒ 25 (Describe) cloudy, brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	---.- mg/l	---.- mg/l
15. COD	---.- mg/l	---.- mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Eric Last Name: Oelkers
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Sarah Last Name: Krueger
Facility/Firm: Wisconsin Department of Natural Resources
Street: 2984 Shawno Ave
City/State/Zip: Green Bay, WI 54313

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Eric Oelkers
Print Name: Eric Oelkers
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Attachment B

Laboratory Analytical Reports

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-171200-1
Client Project/Site: Susie's Restaurant - 25219179.00

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Authorized for release by:
10/16/2019 11:35:39 AM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-171200-1

Job ID: 500-171200-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-171200-1

Comments
No additional comments.

Receipt
The samples were received on 10/4/2019 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -2.1° C.

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

Detection Summary

Client: SCS Engineers
Job ID: 500-171200-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: Sump Pit — Lab Sample ID: 500-171200-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.51	J	1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.44	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	5.0		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	8.8		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	3.4		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: Sump Discharge — Lab Sample ID: 500-171200-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	31		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.46	J	1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.35	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.1		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	5.8		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	2.2		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: Sump Pit Dup — Lab Sample ID: 500-171200-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	40		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.46	J	1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.42	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	4.2		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	7.8		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	2.9		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-171200-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-171200-1

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

Sample Summary

Client: SCS Engineers
Job ID: 500-171200-1
Project/Site: Susie's Restaurant - 25219179.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-171200-1	Sump Pit	Water	10/02/19 07:40	10/04/19 08:45	
500-171200-2	Sump Discharge	Water	10/02/19 07:30	10/04/19 08:45	
500-171200-3	Sump Pit Dup	Water	10/02/19 07:40	10/04/19 08:45	
500-171200-4	Trip Blank	Water	10/02/19 00:00	10/04/19 08:45	

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-171200-1

Client Sample ID: Sump Pit

Date Collected: 10/02/19 07:40
Date Received: 10/04/19 08:45

Lab Sample ID: 500-171200-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/15/19 12:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/15/19 12:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/15/19 12:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/15/19 12:58	1
Bromoform	<0.48		1.0	0.48	ug/L			10/15/19 12:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/15/19 12:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/15/19 12:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/15/19 12:58	1
Chloroform	<0.37		2.0	0.37	ug/L			10/15/19 12:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/15/19 12:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/15/19 12:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/15/19 12:58	1
cis-1,2-Dichloroethene	**43**		1.0	0.41	ug/L			10/15/19 12:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/15/19 12:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/15/19 12:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/15/19 12:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/15/19 12:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/15/19 12:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/15/19 12:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/15/19 12:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/15/19 12:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/15/19 12:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
1,1-Dichloroethene	**0.51**	**J**	1.0	0.39	ug/L			10/15/19 12:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/15/19 12:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/15/19 12:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/15/19 12:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/15/19 12:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/15/19 12:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/15/19 12:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/15/19 12:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/15/19 12:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/15/19 12:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/15/19 12:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/15/19 12:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 12:58	1
Styrene	<0.39		1.0	0.39	ug/L			10/15/19 12:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 12:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/15/19 12:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/15/19 12:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/15/19 12:58	1
Toluene	**0.44**	**J**	0.50	0.15	ug/L			10/15/19 12:58	1
trans-1,2-Dichloroethene	**5.0**		1.0	0.35	ug/L			10/15/19 12:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/15/19 12:58	1

Client Sample ID: Sump Pit
Lab Sample ID: 500-171200-1
Date Collected: 10/02/19 07:40
Matrix: Water
Date Received: 10/04/19 08:45

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			10/15/19 12:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/15/19 12:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/15/19 12:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/15/19 12:58	1
Trichloroethene	**8.8**		0.50	0.16	ug/L			10/15/19 12:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/15/19 12:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/15/19 12:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/15/19 12:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/15/19 12:58	1
Vinyl chloride	**3.4**		1.0	0.20	ug/L			10/15/19 12:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/15/19 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/15/19 12:58*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*10/15/19 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*10/15/19 12:58*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*10/15/19 12:58*	*1*

Client Sample ID: Sump Discharge
Lab Sample ID: 500-171200-2
Date Collected: 10/02/19 07:30
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/15/19 13:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/15/19 13:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/15/19 13:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/15/19 13:23	1
Bromoform	<0.48		1.0	0.48	ug/L			10/15/19 13:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/15/19 13:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/15/19 13:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/15/19 13:23	1
Chloroform	<0.37		2.0	0.37	ug/L			10/15/19 13:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/15/19 13:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/15/19 13:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/15/19 13:23	1
cis-1,2-Dichloroethene	**31**		1.0	0.41	ug/L			10/15/19 13:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/15/19 13:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/15/19 13:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/15/19 13:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/15/19 13:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/15/19 13:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/15/19 13:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/15/19 13:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/15/19 13:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/15/19 13:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
1,1-Dichloroethene	**0.46**	**J**	1.0	0.39	ug/L			10/15/19 13:23	1

Client Sample ID: Sump Discharge
Lab Sample ID: 500-171200-2
Date Collected: 10/02/19 07:30
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/15/19 13:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/15/19 13:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/15/19 13:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/15/19 13:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/15/19 13:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/15/19 13:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/15/19 13:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/15/19 13:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/15/19 13:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/15/19 13:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/15/19 13:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 13:23	1
Styrene	<0.39		1.0	0.39	ug/L			10/15/19 13:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 13:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/15/19 13:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/15/19 13:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/15/19 13:23	1
Toluene	**0.35**	**J**	0.50	0.15	ug/L			10/15/19 13:23	1
trans-1,2-Dichloroethene	**3.1**		1.0	0.35	ug/L			10/15/19 13:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/15/19 13:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/15/19 13:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/15/19 13:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/15/19 13:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/15/19 13:23	1
Trichloroethene	**5.8**		0.50	0.16	ug/L			10/15/19 13:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/15/19 13:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/15/19 13:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/15/19 13:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/15/19 13:23	1
Vinyl chloride	**2.2**		1.0	0.20	ug/L			10/15/19 13:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/15/19 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*10/15/19 13:23*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*10/15/19 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*10/15/19 13:23*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*10/15/19 13:23*	*1*

Client Sample ID: Sump Pit Dup
Lab Sample ID: 500-171200-3
Date Collected: 10/02/19 07:40
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/15/19 13:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/15/19 13:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/15/19 13:47	1

Client Sample ID: Sump Pit Dup
Lab Sample ID: 500-171200-3

Date Collected: 10/02/19 07:40
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/15/19 13:47	1
Bromoform	<0.48		1.0	0.48	ug/L			10/15/19 13:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/15/19 13:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/15/19 13:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/15/19 13:47	1
Chloroform	<0.37		2.0	0.37	ug/L			10/15/19 13:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/15/19 13:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/15/19 13:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/15/19 13:47	1
cis-1,2-Dichloroethene	**40**		1.0	0.41	ug/L			10/15/19 13:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/15/19 13:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/15/19 13:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/15/19 13:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/15/19 13:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/15/19 13:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/15/19 13:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/15/19 13:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/15/19 13:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/15/19 13:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
1,1-Dichloroethene	**0.46**	**J**	1.0	0.39	ug/L			10/15/19 13:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/15/19 13:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/15/19 13:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/15/19 13:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/15/19 13:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/15/19 13:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/15/19 13:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/15/19 13:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/15/19 13:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/15/19 13:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/15/19 13:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/15/19 13:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 13:47	1
Styrene	<0.39		1.0	0.39	ug/L			10/15/19 13:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 13:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/15/19 13:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/15/19 13:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/15/19 13:47	1
Toluene	**0.42**	**J**	0.50	0.15	ug/L			10/15/19 13:47	1
trans-1,2-Dichloroethene	**4.2**		1.0	0.35	ug/L			10/15/19 13:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/15/19 13:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/15/19 13:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/15/19 13:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/15/19 13:47	1

Client Sample ID: Sump Pit Dup
Lab Sample ID: 500-171200-3

Date Collected: 10/02/19 07:40
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/15/19 13:47	1
Trichloroethene	**7.8**		0.50	0.16	ug/L			10/15/19 13:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/15/19 13:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/15/19 13:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/15/19 13:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/15/19 13:47	1
Vinyl chloride	**2.9**		1.0	0.20	ug/L			10/15/19 13:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/15/19 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/15/19 13:47*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*10/15/19 13:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*10/15/19 13:47*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*10/15/19 13:47*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 500-171200-4

Date Collected: 10/02/19 00:00
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/15/19 11:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/15/19 11:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/15/19 11:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/15/19 11:45	1
Bromoform	<0.48		1.0	0.48	ug/L			10/15/19 11:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/15/19 11:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/15/19 11:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/15/19 11:45	1
Chloroform	<0.37		2.0	0.37	ug/L			10/15/19 11:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/15/19 11:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/15/19 11:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/15/19 11:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/15/19 11:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/15/19 11:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/15/19 11:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/15/19 11:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/15/19 11:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/15/19 11:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/15/19 11:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/15/19 11:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/15/19 11:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/15/19 11:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/15/19 11:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/15/19 11:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/15/19 11:45	1

Client Sample ID: Trip Blank
Lab Sample ID: 500-171200-4

Date Collected: 10/02/19 00:00
Matrix: Water
Date Received: 10/04/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/15/19 11:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/15/19 11:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/15/19 11:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/15/19 11:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/15/19 11:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/15/19 11:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/15/19 11:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/15/19 11:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 11:45	1
Styrene	<0.39		1.0	0.39	ug/L			10/15/19 11:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 11:45	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/15/19 11:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/15/19 11:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/15/19 11:45	1
Toluene	<0.15		0.50	0.15	ug/L			10/15/19 11:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/15/19 11:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/15/19 11:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/15/19 11:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/15/19 11:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/15/19 11:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/15/19 11:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/15/19 11:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/15/19 11:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/15/19 11:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/15/19 11:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/15/19 11:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/15/19 11:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/15/19 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*		*10/15/19 11:45*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/15/19 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*10/15/19 11:45*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*10/15/19 11:45*	*1*

Definitions/Glossary

Client: SCS Engineers
Job ID: 500-171200-1
Project/Site: Susie's Restaurant - 25219179.00

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
Job ID: 500-171200-1
Project/Site: Susie's Restaurant - 25219179.00

GC/MS VOA

Analysis Batch: 510025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-171200-1	Sump Pit	Total/NA	Water	8260B	
500-171200-2	Sump Discharge	Total/NA	Water	8260B	
500-171200-3	Sump Pit Dup	Total/NA	Water	8260B	
500-171200-4	Trip Blank	Total/NA	Water	8260B	
MB 500-510025/6	Method Blank	Total/NA	Water	8260B	
LCS 500-510025/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-171200-1

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)
500-171200-1	Sump Pit	92	94	89	97
500-171200-2	Sump Discharge	91	96	91	97
500-171200-3	Sump Pit Dup	92	97	89	99
500-171200-4	Trip Blank	90	95	87	100
LCS 500-510025/4	Lab Control Sample	89	95	87	98
MB 500-510025/6	Method Blank	88	97	95	97

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 500-510025/6
Matrix: Water
Analysis Batch: 510025

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/15/19 10:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/15/19 10:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/15/19 10:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/15/19 10:56	1
Bromoform	<0.48		1.0	0.48	ug/L			10/15/19 10:56	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/15/19 10:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/15/19 10:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/15/19 10:56	1
Chloroform	<0.37		2.0	0.37	ug/L			10/15/19 10:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/15/19 10:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/15/19 10:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/15/19 10:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/15/19 10:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/15/19 10:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/15/19 10:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/15/19 10:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/15/19 10:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/15/19 10:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/15/19 10:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/15/19 10:56	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/15/19 10:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/15/19 10:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/15/19 10:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/15/19 10:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/15/19 10:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/15/19 10:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/15/19 10:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/15/19 10:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/15/19 10:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/15/19 10:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/15/19 10:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/15/19 10:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/15/19 10:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 10:56	1
Styrene	<0.39		1.0	0.39	ug/L			10/15/19 10:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/15/19 10:56	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/15/19 10:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/15/19 10:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/15/19 10:56	1
Toluene	<0.15		0.50	0.15	ug/L			10/15/19 10:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/15/19 10:56	1

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

Lab Sample ID: MB 500-510025/6
Matrix: Water
Analysis Batch: 510025

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/15/19 10:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/15/19 10:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/15/19 10:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/15/19 10:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/15/19 10:56	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/15/19 10:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/15/19 10:56	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/15/19 10:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/15/19 10:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/15/19 10:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/15/19 10:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/15/19 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*		*10/15/19 10:56*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*10/15/19 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*10/15/19 10:56*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*10/15/19 10:56*	*1*

Lab Sample ID: LCS 500-510025/4
Matrix: Water
Analysis Batch: 510025

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.0		ug/L		98	70 - 120
Bromobenzene	50.0	47.1		ug/L		94	70 - 122
Bromochloromethane	50.0	45.9		ug/L		92	65 - 122
Bromodichloromethane	50.0	41.1		ug/L		82	69 - 120
Bromoform	50.0	41.6		ug/L		83	56 - 132
Bromomethane	50.0	45.8		ug/L		92	40 - 152
Carbon tetrachloride	50.0	48.3		ug/L		97	59 - 133
Chlorobenzene	50.0	47.7		ug/L		95	70 - 120
Chloroethane	50.0	48.4		ug/L		97	48 - 136
Chloroform	50.0	41.8		ug/L		84	70 - 120
Chloromethane	50.0	49.6		ug/L		99	56 - 152
2-Chlorotoluene	50.0	46.8		ug/L		94	70 - 125
4-Chlorotoluene	50.0	45.8		ug/L		92	68 - 124
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 125
cis-1,3-Dichloropropene	50.0	43.6		ug/L		87	64 - 127
Dibromochloromethane	50.0	42.4		ug/L		85	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	34.5		ug/L		69	56 - 123
1,2-Dibromoethane	50.0	43.2		ug/L		86	70 - 125
Dibromomethane	50.0	43.0		ug/L		86	70 - 120
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 125
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 125
1,4-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 120
Dichlorodifluoromethane	50.0	36.6		ug/L		73	40 - 159
1,1-Dichloroethane	50.0	51.3		ug/L		103	70 - 125

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

Lab Sample ID: LCS 500-510025/4
Matrix: Water
Analysis Batch: 510025

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	42.0		ug/L		84	68 - 127
1,1-Dichloroethene	50.0	48.9		ug/L		98	67 - 122
1,2-Dichloropropane	50.0	52.7		ug/L		105	67 - 130
1,3-Dichloropropane	50.0	41.2		ug/L		82	62 - 136
2,2-Dichloropropane	50.0	44.9		ug/L		90	58 - 139
1,1-Dichloropropene	50.0	47.0		ug/L		94	70 - 121
Ethylbenzene	50.0	49.5		ug/L		99	70 - 123
Hexachlorobutadiene	50.0	46.3		ug/L		93	51 - 150
Isopropylbenzene	50.0	49.4		ug/L		99	70 - 126
Methylene Chloride	50.0	44.2		ug/L		88	69 - 125
Methyl tert-butyl ether	50.0	39.3		ug/L		79	55 - 123
Naphthalene	50.0	41.0		ug/L		82	53 - 144
n-Butylbenzene	50.0	48.3		ug/L		97	68 - 125
N-Propylbenzene	50.0	48.9		ug/L		98	69 - 127
p-Isopropyltoluene	50.0	49.7		ug/L		99	70 - 125
sec-Butylbenzene	50.0	49.8		ug/L		100	70 - 123
Styrene	50.0	47.2		ug/L		94	70 - 120
tert-Butylbenzene	50.0	49.5		ug/L		99	70 - 121
1,1,1,2-Tetrachloroethane	50.0	46.4		ug/L		93	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.6		ug/L		79	62 - 140
Tetrachloroethene	50.0	51.2		ug/L		102	70 - 128
Toluene	50.0	47.5		ug/L		95	70 - 125
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	70 - 125
trans-1,3-Dichloropropene	50.0	41.0		ug/L		82	62 - 128
1,2,3-Trichlorobenzene	50.0	44.2		ug/L		88	51 - 145
1,2,4-Trichlorobenzene	50.0	45.3		ug/L		91	57 - 137
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	40.5		ug/L		81	71 - 130
Trichloroethene	50.0	51.5		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	47.9		ug/L		96	55 - 128
1,2,3-Trichloropropane	50.0	37.0		ug/L		74	50 - 133
1,2,4-Trimethylbenzene	50.0	47.3		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	50.0	48.5		ug/L		97	70 - 123
Vinyl chloride	50.0	54.5		ug/L		109	64 - 126
Xylenes, Total	100	92.7		ug/L		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane	*95*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-171200-1

Client Sample ID: Sump Pit
Date Collected: 10/02/19 07:40
Date Received: 10/04/19 08:45

Lab Sample ID: 500-171200-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	510025	10/15/19 12:58	JLC	TAL CHI

Client Sample ID: Sump Discharge
Date Collected: 10/02/19 07:30
Date Received: 10/04/19 08:45

Lab Sample ID: 500-171200-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	510025	10/15/19 13:23	JLC	TAL CHI

Client Sample ID: Sump Pit Dup
Date Collected: 10/02/19 07:40
Date Received: 10/04/19 08:45

Lab Sample ID: 500-171200-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	510025	10/15/19 13:47	JLC	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 10/02/19 00:00
Date Received: 10/04/19 08:45

Lab Sample ID: 500-171200-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	510025	10/15/19 11:45	JLC	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 500-171200-1
Project/Site: Susie's Restaurant - 25219179.00

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Robert Langdon	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-75709-35216.1
Client Contact: Mr. Robert Langdon	Phone:	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: SCS Engineers				Job #: 500-171200
Address: 2830 Dairy Dr	Due Date Requested:			
City: Madison	TAT Requested (days): Standard			
State, Zip: WI, 53718				
Phone:	PO #: 25219179.00			
Email: rlangdon@scsengineers.com	WO #:			
Project Name: Susie's Restaurant 25219179.00	Project #: 50006561			
Site:	SSOW#:			

Analysis Requested

500-171200 COC

Preservation Codes:

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A		
1	Sump Pit	10/2/19	740	6	Water	N	N	X	3	
2	Sump Discharge	10/2/19	730	6	Water	N	N	X	3	
3	Sump Pit Dup	10/2/19	740	6	Water	N	N	X	3	
4	Trip Blank	—	—	6	Water	X	X	X	1	
					Water					
					Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Robert Langdon	10/3/19 1200	SCS	Paula Bulkley	10/4/19 0845	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 955537 | Cooler Temperature(s) °C and Other Remarks: -2.1

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-171200-1

Login Number: 171200
List Number: 1
Creator: Buckley, Paula M

List Source: Eurofins 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	-2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-177804-1
Client Project/Site: Susie's Restaurant - 25219179.00

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Authorized for release by:
2/25/2020 10:22:38 AM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

Job ID: 500-177804-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-177804-1

Comments
No additional comments.

Receipt
The samples were received on 2/13/2020 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

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

Detection Summary

Client: SCS Engineers
Job ID: 500-177804-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3 — Lab Sample ID: 500-177804-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.41	J	1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.23	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3 Dup — Lab Sample ID: 500-177804-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.41	ug/L	1		8260B	Total/NA
Toluene	0.15	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.43	J	1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.48	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-177804-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

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

Sample Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-177804-1	MW-3	Water	02/11/20 11:05	02/13/20 10:15	
500-177804-2	MW-3 Dup	Water	02/11/20 11:05	02/13/20 10:15	
500-177804-3	Trip Blank	Water	02/11/20 00:00	02/13/20 10:15	

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

Client Sample ID: MW-3
Date Collected: 02/11/20 11:05
Date Received: 02/13/20 10:15

Lab Sample ID: 500-177804-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/24/20 14:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/24/20 14:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/24/20 14:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/24/20 14:45	1
Bromoform	<0.48		1.0	0.48	ug/L			02/24/20 14:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/24/20 14:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/24/20 14:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/24/20 14:45	1
Chloroform	<0.37		2.0	0.37	ug/L			02/24/20 14:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/24/20 14:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/24/20 14:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/24/20 14:45	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.41	ug/L			02/24/20 14:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/24/20 14:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/24/20 14:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/24/20 14:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/24/20 14:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/24/20 14:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/24/20 14:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/24/20 14:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/24/20 14:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/24/20 14:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/24/20 14:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/24/20 14:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/24/20 14:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/24/20 14:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/24/20 14:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/24/20 14:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/24/20 14:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/24/20 14:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/24/20 14:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/24/20 14:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/24/20 14:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 14:45	1
Styrene	<0.39		1.0	0.39	ug/L			02/24/20 14:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 14:45	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/24/20 14:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/24/20 14:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/24/20 14:45	1
Toluene	<0.15		0.50	0.15	ug/L			02/24/20 14:45	1
trans-1,2-Dichloroethene	**0.41**	**J**	1.0	0.35	ug/L			02/24/20 14:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/24/20 14:45	1

Client Sample ID: MW-3
Lab Sample ID: 500-177804-1
Date Collected: 02/11/20 11:05
Matrix: Water
Date Received: 02/13/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/24/20 14:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/24/20 14:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/24/20 14:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/24/20 14:45	1
Trichloroethene	**0.23**	**J**	0.50	0.16	ug/L			02/24/20 14:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/24/20 14:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/24/20 14:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/24/20 14:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/24/20 14:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/24/20 14:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/24/20 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*72 - 124*		*02/24/20 14:45*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*02/24/20 14:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*02/24/20 14:45*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*02/24/20 14:45*	*1*

Client Sample ID: MW-3 Dup
Lab Sample ID: 500-177804-2
Date Collected: 02/11/20 11:05
Matrix: Water
Date Received: 02/13/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/24/20 15:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/24/20 15:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/24/20 15:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/24/20 15:11	1
Bromoform	<0.48		1.0	0.48	ug/L			02/24/20 15:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/24/20 15:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/24/20 15:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/24/20 15:11	1
Chloroform	<0.37		2.0	0.37	ug/L			02/24/20 15:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/24/20 15:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/24/20 15:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/24/20 15:11	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.41	ug/L			02/24/20 15:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/24/20 15:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/24/20 15:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/24/20 15:11	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/24/20 15:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/24/20 15:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/24/20 15:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/24/20 15:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/24/20 15:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/24/20 15:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1

Client Sample ID: MW-3 Dup
Lab Sample ID: 500-177804-2
Date Collected: 02/11/20 11:05
Matrix: Water
Date Received: 02/13/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/24/20 15:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/24/20 15:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/24/20 15:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/24/20 15:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/24/20 15:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/24/20 15:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/24/20 15:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/24/20 15:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/24/20 15:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/24/20 15:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/24/20 15:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 15:11	1
Styrene	<0.39		1.0	0.39	ug/L			02/24/20 15:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 15:11	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/24/20 15:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/24/20 15:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/24/20 15:11	1
Toluene	**0.15**	**J**	0.50	0.15	ug/L			02/24/20 15:11	1
trans-1,2-Dichloroethene	**0.43**	**J**	1.0	0.35	ug/L			02/24/20 15:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/24/20 15:11	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/24/20 15:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/24/20 15:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/24/20 15:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/24/20 15:11	1
Trichloroethene	**0.48**	**J**	0.50	0.16	ug/L			02/24/20 15:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/24/20 15:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/24/20 15:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/24/20 15:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/24/20 15:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/24/20 15:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/24/20 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*02/24/20 15:11*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*02/24/20 15:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*02/24/20 15:11*	*1*
Toluene-d8 (Surr)	*113*		*75 - 120*		*02/24/20 15:11*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 500-177804-3
Date Collected: 02/11/20 00:00
Matrix: Water
Date Received: 02/13/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/24/20 13:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/24/20 13:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/24/20 13:29	1

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

Client Sample ID: Trip Blank
Date Collected: 02/11/20 00:00
Date Received: 02/13/20 10:15

Lab Sample ID: 500-177804-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/24/20 13:29	1
Bromoform	<0.48		1.0	0.48	ug/L			02/24/20 13:29	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/24/20 13:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/24/20 13:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/24/20 13:29	1
Chloroform	<0.37		2.0	0.37	ug/L			02/24/20 13:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/24/20 13:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/24/20 13:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/24/20 13:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/24/20 13:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/24/20 13:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/24/20 13:29	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/24/20 13:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/24/20 13:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/24/20 13:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/24/20 13:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/24/20 13:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/24/20 13:29	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/24/20 13:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/24/20 13:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/24/20 13:29	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/24/20 13:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/24/20 13:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/24/20 13:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/24/20 13:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/24/20 13:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/24/20 13:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/24/20 13:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/24/20 13:29	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/24/20 13:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 13:29	1
Styrene	<0.39		1.0	0.39	ug/L			02/24/20 13:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 13:29	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/24/20 13:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/24/20 13:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/24/20 13:29	1
Toluene	<0.15		0.50	0.15	ug/L			02/24/20 13:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/24/20 13:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/24/20 13:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/24/20 13:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/24/20 13:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/24/20 13:29	1

Client: SCS Engineers
Job ID: 500-177804-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: Trip Blank
Lab Sample ID: 500-177804-3
Date Collected: 02/11/20 00:00
Matrix: Water
Date Received: 02/13/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/24/20 13:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/24/20 13:29	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/24/20 13:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/24/20 13:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/24/20 13:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/24/20 13:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/24/20 13:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/24/20 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*02/24/20 13:29*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*02/24/20 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*02/24/20 13:29*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*02/24/20 13:29*	*1*

Definitions/Glossary

Client: SCS Engineers
Job ID: 500-177804-1
Project/Site: Susie's Restaurant - 25219179.00

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: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

GC/MS VOA

Analysis Batch: 531092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-177804-1	MW-3	Total/NA	Water	8260B	
500-177804-2	MW-3 Dup	Total/NA	Water	8260B	
500-177804-3	Trip Blank	Total/NA	Water	8260B	
MB 500-531092/7	Method Blank	Total/NA	Water	8260B	
LCS 500-531092/6	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-177804-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-177804-1	MW-3	121	92	91	106
500-177804-2	MW-3 Dup	117	95	92	113
500-177804-3	Trip Blank	115	91	86	102
LCS 500-531092/6	Lab Control Sample	109	98	90	90
MB 500-531092/7	Method Blank	116	92	88	108

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 500-531092/7
Matrix: Water
Analysis Batch: 531092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/24/20 11:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/24/20 11:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/24/20 11:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/24/20 11:47	1
Bromoform	<0.48		1.0	0.48	ug/L			02/24/20 11:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/24/20 11:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/24/20 11:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/24/20 11:47	1
Chloroform	<0.37		2.0	0.37	ug/L			02/24/20 11:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/24/20 11:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/24/20 11:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/24/20 11:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/24/20 11:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/24/20 11:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/24/20 11:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/24/20 11:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/24/20 11:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/24/20 11:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/24/20 11:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/24/20 11:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/24/20 11:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/24/20 11:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/24/20 11:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/24/20 11:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/24/20 11:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/24/20 11:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/24/20 11:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/24/20 11:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/24/20 11:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			02/24/20 11:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
Naphthalene	0.567	J	1.0	0.34	ug/L			02/24/20 11:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/24/20 11:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/24/20 11:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 11:47	1
Styrene	<0.39		1.0	0.39	ug/L			02/24/20 11:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/24/20 11:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/24/20 11:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/24/20 11:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/24/20 11:47	1
Toluene	<0.15		0.50	0.15	ug/L			02/24/20 11:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/24/20 11:47	1

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

Lab Sample ID: MB 500-531092/7
Matrix: Water
Analysis Batch: 531092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/24/20 11:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/24/20 11:47	1
1,2,4-Trichlorobenzene	0.346	J	1.0	0.34	ug/L			02/24/20 11:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/24/20 11:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/24/20 11:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/24/20 11:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/24/20 11:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/24/20 11:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/24/20 11:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/24/20 11:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/24/20 11:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/24/20 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*02/24/20 11:47*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*02/24/20 11:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*02/24/20 11:47*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*02/24/20 11:47*	*1*

Lab Sample ID: LCS 500-531092/6
Matrix: Water
Analysis Batch: 531092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.3		ug/L		95	70 - 120
Bromobenzene	50.0	49.8		ug/L		100	70 - 122
Bromochloromethane	50.0	48.5		ug/L		97	65 - 122
Bromodichloromethane	50.0	43.0		ug/L		86	69 - 120
Bromoform	50.0	39.8		ug/L		80	56 - 132
Bromomethane	50.0	35.7		ug/L		71	40 - 152
Carbon tetrachloride	50.0	45.4		ug/L		91	59 - 133
Chlorobenzene	50.0	47.5		ug/L		95	70 - 120
Chloroethane	50.0	39.5		ug/L		79	48 - 136
Chloroform	50.0	47.8		ug/L		96	70 - 120
Chloromethane	50.0	58.0		ug/L		116	56 - 152
2-Chlorotoluene	50.0	51.7		ug/L		103	70 - 125
4-Chlorotoluene	50.0	50.0		ug/L		100	68 - 124
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 125
cis-1,3-Dichloropropene	50.0	38.4		ug/L		77	64 - 127
Dibromochloromethane	50.0	38.5		ug/L		77	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.3		ug/L		81	56 - 123
1,2-Dibromoethane	50.0	44.5		ug/L		89	70 - 125
Dibromomethane	50.0	43.1		ug/L		86	70 - 120
1,2-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 125
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 125
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	45.4		ug/L		91	40 - 159
1,1-Dichloroethane	50.0	50.0		ug/L		100	70 - 125

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

Lab Sample ID: LCS 500-531092/6
Matrix: Water
Analysis Batch: 531092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	41.9		ug/L		84	68 - 127
1,1-Dichloroethene	50.0	50.0		ug/L		100	67 - 122
1,2-Dichloropropane	50.0	47.7		ug/L		95	67 - 130
1,3-Dichloropropane	50.0	43.1		ug/L		86	62 - 136
2,2-Dichloropropane	50.0	50.9		ug/L		102	58 - 139
1,1-Dichloropropene	50.0	49.5		ug/L		99	70 - 121
Ethylbenzene	50.0	51.1		ug/L		102	70 - 123
Hexachlorobutadiene	50.0	54.6		ug/L		109	51 - 150
Isopropylbenzene	50.0	52.3		ug/L		105	70 - 126
Methylene Chloride	50.0	49.4		ug/L		99	69 - 125
Methyl tert-butyl ether	50.0	47.4		ug/L		95	55 - 123
Naphthalene	50.0	42.9		ug/L		86	53 - 144
n-Butylbenzene	50.0	51.7		ug/L		103	68 - 125
N-Propylbenzene	50.0	53.2		ug/L		106	69 - 127
p-Isopropyltoluene	50.0	49.3		ug/L		99	70 - 125
sec-Butylbenzene	50.0	51.5		ug/L		103	70 - 123
Styrene	50.0	46.6		ug/L		93	70 - 120
tert-Butylbenzene	50.0	49.1		ug/L		98	70 - 121
1,1,1,2-Tetrachloroethane	50.0	42.1		ug/L		84	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	62 - 140
Tetrachloroethene	50.0	45.5		ug/L		91	70 - 128
Toluene	50.0	41.9		ug/L		84	70 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	70 - 125
trans-1,3-Dichloropropene	50.0	38.7		ug/L		77	62 - 128
1,2,3-Trichlorobenzene	50.0	45.4		ug/L		91	51 - 145
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	57 - 137
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	70 - 125
1,1,2-Trichloroethane	50.0	40.9		ug/L		82	71 - 130
Trichloroethene	50.0	45.4		ug/L		91	70 - 125
Trichlorofluoromethane	50.0	47.0		ug/L		94	55 - 128
1,2,3-Trichloropropane	50.0	48.2		ug/L		96	50 - 133
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	70 - 123
1,3,5-Trimethylbenzene	50.0	50.0		ug/L		100	70 - 123
Vinyl chloride	50.0	49.5		ug/L		99	64 - 126
Xylenes, Total	100	93.7		ug/L		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
Toluene-d8 (Surr)	*90*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Job ID: 500-177804-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3
Lab Sample ID: 500-177804-1
Date Collected: 02/11/20 11:05
Matrix: Water
Date Received: 02/13/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	531092	02/24/20 14:45	PMF	TAL CHI

Client Sample ID: MW-3 Dup
Lab Sample ID: 500-177804-2
Date Collected: 02/11/20 11:05
Matrix: Water
Date Received: 02/13/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	531092	02/24/20 15:11	PMF	TAL CHI

Client Sample ID: Trip Blank
Lab Sample ID: 500-177804-3
Date Collected: 02/11/20 00:00
Matrix: Water
Date Received: 02/13/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	531092	02/24/20 13:29	PMF	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 500-177804-1
Project/Site: Susie's Restaurant - 25219179.00

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

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

Chain of Custody Record

eurofins

Client Information	Sampler: Robert Langdon	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-79224-35216.1
Client Contact: Mr. Robert Langdon	Phone: 608 212 3995	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: SCS Engineers				Job #: 500-177804

Address: 2830 Dairy Dr	Due Date Requested: —		
City: Madison	TAT Requested (days): Standard		
State, Zip: WI, 53718			
Phone: 500-177804 COC	PO #: 25219179.00		
Email: rlangdon@scsengineers.com	WO #:		
Project Name: Susie's Restaurant 25219179.00	Project #: 50006561		
Site: Susie's Restaurant	SSOW#:		

Analysis Requested

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

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A		
1	MW-3	2/11/20	1105	G	Water	N	N	X		
2	MW-3 DUP	2/11/20	1105	G	Water	N	N	X		
3	Trip Blank	2/11/20	—	—	Water	N	N	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Robert Langdon	Date/Time: 2/12/20 / 1700	Company: SCS	Received by: [signature] Date/Time: 2/13/20 1015 Company: TA-CHI
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 1027047

Cooler Temperature(s) °C and Other Remarks: 2.7

Ver: 01/16/2019


ORIGIN ID:RLA (262) 202-5955
ROBERT LAGDON
2830 DAIRY DR
MADISON, WI 53718
UNITED STATES US
SHIP DATE: 04FEB20
ACTWGT: 15.00 LB MAN
CAD: 525155/CAFE3211
TO
TESTAMERICA CHICAGO
2417 BOND STREET
UNIVERSITY PARK IL 60484-3101
500-177804 Waybill
(708) 534-5200
INV:
PO:
REF:
DEPT:
RMA:
FedEx
Express
FedEx
TRK# 0221 7125 4941 9522
THU - 13 FEB 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD
16qt.

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-177804-1

Login Number: 177804
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins 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	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-185795-1
Client Project/Site: Susie's Restaurant - 25219179.00

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Authorized for release by:
8/12/2020 1:02:00 PM

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

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

Job ID: 500-185795-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-185795-1

Comments
No additional comments.

Receipt
The samples were received on 7/31/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.3º C.

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

Detection Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

Client Sample ID: MW-3 — Lab Sample ID: 500-185795-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.36	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-185795-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

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

Sample Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-185795-1	MW-3	Water	07/29/20 14:30	07/31/20 09:45	
500-185795-2	Trip Blank	Water	07/29/20 00:00	07/31/20 09:45	

Client Sample Results

Client: SCS Engineers
Job ID: 500-185795-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3
Lab Sample ID: 500-185795-1
Date Collected: 07/29/20 14:30
Matrix: Water
Date Received: 07/31/20 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/11/20 19:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/11/20 19:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/11/20 19:08	1
Trichloroethene	**0.36**	**J**	0.50	0.16	ug/L			08/11/20 19:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/11/20 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*08/11/20 19:08*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/11/20 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*08/11/20 19:08*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*08/11/20 19:08*	*1*

Client: SCS Engineers
Job ID: 500-185795-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: Trip Blank
Lab Sample ID: 500-185795-2
Date Collected: 07/29/20 00:00
Matrix: Water
Date Received: 07/31/20 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/11/20 14:38	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/11/20 14:38	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/11/20 14:38	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/11/20 14:38	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/11/20 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*08/11/20 14:38*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*08/11/20 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*08/11/20 14:38*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*08/11/20 14:38*	*1*

Definitions/Glossary

Client: SCS Engineers
Job ID: 500-185795-1
Project/Site: Susie's Restaurant - 25219179.00

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

GC/MS VOA

Analysis Batch: 556198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-185795-1	MW-3	Total/NA	Water	8260B	
500-185795-2	Trip Blank	Total/NA	Water	8260B	
MB 500-556198/7	Method Blank	Total/NA	Water	8260B	
LCS 500-556198/5	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Susie's Restaurant - 25219179.00

Job ID: 500-185795-1

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)
500-185795-1	MW-3	98	99	105	99
500-185795-2	Trip Blank	93	98	104	98
LCS 500-556198/5	Lab Control Sample	94	100	104	100
MB 500-556198/7	Method Blank	94	100	107	98

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 500-556198/7
Matrix: Water
Analysis Batch: 556198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/11/20 11:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/11/20 11:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/11/20 11:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/11/20 11:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/11/20 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*08/11/20 11:04*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*08/11/20 11:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*08/11/20 11:04*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*08/11/20 11:04*	*1*

Lab Sample ID: LCS 500-556198/5
Matrix: Water
Analysis Batch: 556198

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	70 - 125
Tetrachloroethene	50.0	50.5		ug/L		101	70 - 128
trans-1,2-Dichloroethene	50.0	46.5		ug/L		93	70 - 125
Trichloroethene	50.0	50.6		ug/L		101	70 - 125
Vinyl chloride	50.0	53.0		ug/L		106	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Job ID: 500-185795-1
Project/Site: Susie's Restaurant - 25219179.00

Client Sample ID: MW-3
Lab Sample ID: 500-185795-1
Date Collected: 07/29/20 14:30
Matrix: Water
Date Received: 07/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	556198	08/11/20 19:08	STW	TAL CHI

Client Sample ID: Trip Blank
Lab Sample ID: 500-185795-2
Date Collected: 07/29/20 00:00
Matrix: Water
Date Received: 07/31/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	556198	08/11/20 14:38	STW	TAL CHI

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 500-185795-1
Project/Site: Susie's Restaurant - 25219179.00

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

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

Chain of Custody Record

500-185795 COC

Client Information	Sampler: Robert Langdon	Lab PM: Fredrick, Sandie	Ca	COC No: 500-83796-35216.1
Client Contact: Mr. Robert Langdon	Phone: 608 212 3995	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: SCS Engineers				Job #: 500-185795
Address: 2830 Dairy Dr	Due Date Requested:			
City: Madison	TAT Requested (days): Standard			
State, Zip: WI, 53718	PO #: 25219179.00			
Phone: 608 212 3995	WO #:			
Email: rlangdon@scsengineers.com	Projec. #: 50006561			
Project Name: Susie's Restaurant 25219179.00	SSOW#:			
Site: Golden Flame				

Analysis Requested

Preservation Codes:

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOC 8260B *	Total Number of containers	Special Instructions/Note:
				Preservation Code:				2		
1	MW-3	7/29/20	1430	G	Water	N	N	X		* Analyze for only PCE, TCE, cis 12 DCE, Trans-12DCE and vinyl chloride
2	Trip Blank				Water	N	N	X		
					Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Robert Langdon	7/30/20 1700	SCS		7/31/20 0945	TA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 5.3

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-185795-1

Login Number: 185795
List Number: 1
Creator: James, Jeff A

List Source: Eurofins 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	5.3
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.	False	see NCM
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 16, 2019

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Dear Rob Langdon:
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10501881001	MH 7-149	Air	12/03/19 10:24	12/06/19 13:30
10501881002	MH 7-142	Air	12/03/19 10:54	12/06/19 13:30
10501881003	MH 7-139	Air	12/03/19 11:13	12/06/19 13:30
10501881004	MH 7-143	Air	12/03/19 11:45	12/06/19 13:30
10501881005	MH 7-146	Air	12/03/19 12:17	12/06/19 13:30
10501881006	IA-1 2614 Custer bsmt.	Air	12/03/19 13:50	12/06/19 13:30
10501881007	IA-2 2614 Custer LR	Air	12/03/19 08:42	12/06/19 13:30
10501881008	IA-3 Golden Flame bsmt.	Air	12/03/19 14:40	12/06/19 13:30
10501881009	IA-4 Golden Flame Mens	Air	12/03/19 14:22	12/06/19 13:30
10501881010	IA-5 Golden Flame DR	Air	12/03/19 14:34	12/06/19 13:30
10501881011	IA-6 2616 Washington Up	Air	12/03/19 15:21	12/06/19 13:30
10501881012	IA-7 2616 Washington down	Air	12/03/19 15:23	12/06/19 13:30
10501881013	IA-8 1002 26th upstairs	Air	12/03/19 15:46	12/06/19 13:30
10501881014	IA-9 1002 26th down st.	Air	12/03/19 16:32	12/06/19 13:30
10501881015	IA-10 2525 Washington	Air	12/03/19 15:46	12/06/19 13:30
10501881016	Unused Can 0885	Air		12/06/19 13:30
10501881017	Unused Can 0317	Air		12/06/19 13:30
10501881018	VP-9 2525 Washington	Air	12/04/19 10:21	12/06/19 13:30
10501881019	Unused Can 1593	Air		12/06/19 13:30
10501881020	Unused Can 0147	Air		12/06/19 13:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10501881001	**MH 7-149**	TO-15	AFV	5	PASI-M
10501881002	**MH 7-142**	TO-15	AFV	5	PASI-M
10501881003	**MH 7-139**	TO-15	AFV	5	PASI-M
10501881004	**MH 7-143**	TO-15	AFV	5	PASI-M
10501881005	**MH 7-146**	TO-15	AFV	5	PASI-M
10501881006	**IA-1 2614 Custer bsmt.**	TO-15	AFV	5	PASI-M
10501881007	**IA-2 2614 Custer LR**	TO-15	AFV	5	PASI-M
10501881008	**IA-3 Golden Flame bsmt.**	TO-15	AFV	5	PASI-M
10501881009	**IA-4 Golden Flame Mens**	TO-15	AFV	5	PASI-M
10501881010	**IA-5 Golden Flame DR**	TO-15	AFV	5	PASI-M
10501881011	**IA-6 2616 Washington Up**	TO-15	AFV	5	PASI-M
10501881012	**IA-7 2616 Washington down**	TO-15	AFV	5	PASI-M
10501881013	**IA-8 1002 26th upstairs**	TO-15	AFV	5	PASI-M
10501881014	**IA-9 1002 26th down st.**	TO-15	AFV	5	PASI-M
10501881015	**IA-10 2525 Washington**	TO-15	AFV	5	PASI-M
10501881018	**VP-9 2525 Washington**	TO-15	AFV	5	PASI-M

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Sample: MH 7-149 **Lab ID: 10501881001** Collected: 12/03/19 10:24 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**179**	ug/m3	1.6	0.44	2.02		12/11/19 05:05	156-59-2	
trans-1,2-Dichloroethene	**38.0**	ug/m3	1.6	0.58	2.02		12/11/19 05:05	156-60-5	
Tetrachloroethene	**2.3**	ug/m3	1.4	0.63	2.02		12/11/19 05:05	127-18-4	
Trichloroethene	**371**	ug/m3	11.0	5.1	20.2		12/11/19 13:26	79-01-6	
Vinyl chloride	**7.7**	ug/m3	0.53	0.25	2.02		12/11/19 05:05	75-01-4	

Sample: MH 7-142 **Lab ID: 10501881002** Collected: 12/03/19 10:54 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**37.3**	ug/m3	1.6	0.44	2.02		12/11/19 05:35	156-59-2	
trans-1,2-Dichloroethene	**8.4**	ug/m3	1.6	0.58	2.02		12/11/19 05:35	156-60-5	
Tetrachloroethene	**43.4**	ug/m3	1.4	0.63	2.02		12/11/19 05:35	127-18-4	
Trichloroethene	**74.0**	ug/m3	1.1	0.51	2.02		12/11/19 05:35	79-01-6	
Vinyl chloride	**1.9**	ug/m3	0.53	0.25	2.02		12/11/19 05:35	75-01-4	

Sample: MH 7-139 **Lab ID: 10501881003** Collected: 12/03/19 11:13 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**6.1**	ug/m3	1.6	0.44	2.02		12/11/19 06:04	156-59-2	
trans-1,2-Dichloroethene	**1.3J**	ug/m3	1.6	0.58	2.02		12/11/19 06:04	156-60-5	
Tetrachloroethene	**12.9**	ug/m3	1.4	0.63	2.02		12/11/19 06:04	127-18-4	
Trichloroethene	**7.9**	ug/m3	1.1	0.51	2.02		12/11/19 06:04	79-01-6	
Vinyl chloride	**<0.25**	ug/m3	0.53	0.25	2.02		12/11/19 06:04	75-01-4	

Sample: MH 7-143 **Lab ID: 10501881004** Collected: 12/03/19 11:45 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.5	0.41	1.87		12/11/19 06:34	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.87		12/11/19 06:34	156-60-5	
Tetrachloroethene	**<0.59**	ug/m3	1.3	0.59	1.87		12/11/19 06:34	127-18-4	
Trichloroethene	**<0.47**	ug/m3	1.0	0.47	1.87		12/11/19 06:34	79-01-6	
Vinyl chloride	**<0.24**	ug/m3	0.49	0.24	1.87		12/11/19 06:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Sample: MH 7-146 **Lab ID: 10501881005** Collected: 12/03/19 12:17 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.6	0.42	1.94		12/11/19 07:03	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.6	0.55	1.94		12/11/19 07:03	156-60-5	
Tetrachloroethene	**41.9**	ug/m3	1.3	0.61	1.94		12/11/19 07:03	127-18-4	
Trichloroethene	**<0.49**	ug/m3	1.1	0.49	1.94		12/11/19 07:03	79-01-6	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.94		12/11/19 07:03	75-01-4	

Sample: IA-1 2614 Custer bsmt. **Lab ID: 10501881006** Collected: 12/03/19 13:50 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		12/11/19 01:07	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		12/11/19 01:07	156-60-5	
Tetrachloroethene	**<0.57**	ug/m3	1.3	0.57	1.83		12/11/19 01:07	127-18-4	
Trichloroethene	**<0.46**	ug/m3	1.0	0.46	1.83		12/11/19 01:07	79-01-6	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		12/11/19 01:07	75-01-4	

Sample: IA-2 2614 Custer LR **Lab ID: 10501881007** Collected: 12/03/19 08:42 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		12/10/19 22:08	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		12/10/19 22:08	156-60-5	
Tetrachloroethene	**<0.57**	ug/m3	1.3	0.57	1.83		12/10/19 22:08	127-18-4	
Trichloroethene	**<0.46**	ug/m3	1.0	0.46	1.83		12/10/19 22:08	79-01-6	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		12/10/19 22:08	75-01-4	

Sample: IA-3 Golden Flame bsmt. **Lab ID: 10501881008** Collected: 12/03/19 14:40 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**2.0**	ug/m3	1.2	0.33	1.49		12/10/19 23:08	156-59-2	
trans-1,2-Dichloroethene	**0.44J**	ug/m3	1.2	0.42	1.49		12/10/19 23:08	156-60-5	
Tetrachloroethene	**0.98J**	ug/m3	1.0	0.47	1.49		12/10/19 23:08	127-18-4	
Trichloroethene	**4.1**	ug/m3	0.81	0.38	1.49		12/10/19 23:08	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		12/10/19 23:08	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Sample: IA-4 Golden Flame Mens **Lab ID: 10501881009** Collected: 12/03/19 14:22 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		12/11/19 00:07	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		12/11/19 00:07	156-60-5	
Tetrachloroethene	**<0.47**	ug/m3	1.0	0.47	1.49		12/11/19 00:07	127-18-4	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		12/11/19 00:07	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		12/11/19 00:07	75-01-4	

Sample: IA-5 Golden Flame DR **Lab ID: 10501881010** Collected: 12/03/19 14:34 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		12/11/19 00:37	156-59-2	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		12/11/19 00:37	156-60-5	
Tetrachloroethene	**<0.45**	ug/m3	0.99	0.45	1.44		12/11/19 00:37	127-18-4	
Trichloroethene	**<0.36**	ug/m3	0.79	0.36	1.44		12/11/19 00:37	79-01-6	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		12/11/19 00:37	75-01-4	

Sample: IA-6 2616 Washington Up **Lab ID: 10501881011** Collected: 12/03/19 15:21 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		12/11/19 01:36	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		12/11/19 01:36	156-60-5	
Tetrachloroethene	**0.68J**	ug/m3	1.1	0.51	1.61		12/11/19 01:36	127-18-4	
Trichloroethene	**0.55J**	ug/m3	0.88	0.41	1.61		12/11/19 01:36	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		12/11/19 01:36	75-01-4	

Sample: IA-7 2616 Washington down **Lab ID: 10501881012** Collected: 12/03/19 15:23 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		12/11/19 02:06	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		12/11/19 02:06	156-60-5	
Tetrachloroethene	**0.61J**	ug/m3	1.1	0.51	1.61		12/11/19 02:06	127-18-4	
Trichloroethene	**0.66J**	ug/m3	0.88	0.41	1.61		12/11/19 02:06	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		12/11/19 02:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Sample: IA-8 1002 26th upstairs **Lab ID: 10501881013** Collected: 12/03/19 15:46 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		12/11/19 02:36	156-59-2	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		12/11/19 02:36	156-60-5	
Tetrachloroethene	**<0.45**	ug/m3	0.99	0.45	1.44		12/11/19 02:36	127-18-4	
Trichloroethene	**<0.36**	ug/m3	0.79	0.36	1.44		12/11/19 02:36	79-01-6	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		12/11/19 02:36	75-01-4	

Sample: IA-9 1002 26th down st. **Lab ID: 10501881014** Collected: 12/03/19 16:32 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		12/11/19 03:05	156-59-2	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		12/11/19 03:05	156-60-5	
Tetrachloroethene	**<0.45**	ug/m3	0.99	0.45	1.44		12/11/19 03:05	127-18-4	
Trichloroethene	**<0.36**	ug/m3	0.79	0.36	1.44		12/11/19 03:05	79-01-6	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		12/11/19 03:05	75-01-4	

Sample: IA-10 2525 Washington **Lab ID: 10501881015** Collected: 12/03/19 15:46 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		12/11/19 03:35	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		12/11/19 03:35	156-60-5	
Tetrachloroethene	**<0.51**	ug/m3	1.1	0.51	1.61		12/11/19 03:35	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.88	0.41	1.61		12/11/19 03:35	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		12/11/19 03:35	75-01-4	

Sample: VP-9 2525 Washington **Lab ID: 10501881018** Collected: 12/04/19 10:21 Received: 12/06/19 13:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		12/11/19 04:05	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		12/11/19 04:05	156-60-5	
Tetrachloroethene	**<0.51**	ug/m3	1.1	0.51	1.61		12/11/19 04:05	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.88	0.41	1.61		12/11/19 04:05	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		12/11/19 04:05	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

QC Batch: 649172 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10501881001, 10501881002, 10501881003, 10501881004, 10501881005, 10501881006, 10501881007, 10501881008, 10501881009, 10501881010, 10501881011, 10501881012, 10501881013, 10501881014, 10501881015, 10501881018

METHOD BLANK: 3491709 Matrix: Air
Associated Lab Samples: 10501881001, 10501881002, 10501881003, 10501881004, 10501881005, 10501881006, 10501881007, 10501881008, 10501881009, 10501881010, 10501881011, 10501881012, 10501881013, 10501881014, 10501881015, 10501881018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	12/10/19 15:12	
Tetrachloroethene	ug/m3	<0.31	0.69	12/10/19 15:12	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	12/10/19 15:12	
Trichloroethene	ug/m3	<0.25	0.55	12/10/19 15:12	
Vinyl chloride	ug/m3	<0.13	0.26	12/10/19 15:12	

LABORATORY CONTROL SAMPLE: 3491710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.9	42.8	102	70-130	
Tetrachloroethene	ug/m3	70.3	69.4	99	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	41.6	100	70-130	
Trichloroethene	ug/m3	56.3	57.8	103	70-130	
Vinyl chloride	ug/m3	28.1	25.9	92	70-130	

SAMPLE DUPLICATE: 3492715

Parameter	Units	10501881007 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
Tetrachloroethene	ug/m3	<0.57	<0.57		25	
trans-1,2-Dichloroethene	ug/m3	<0.52	<0.52		25	
Trichloroethene	ug/m3	<0.46	<0.46		25	
Vinyl chloride	ug/m3	<0.23	<0.23		25	

SAMPLE DUPLICATE: 3492716

Parameter	Units	10501881008 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	2.0	2.0	0	25	
Tetrachloroethene	ug/m3	0.98J	0.97J		25	
trans-1,2-Dichloroethene	ug/m3	0.44J	<0.42		25	
Trichloroethene	ug/m3	4.1	4.2	2	25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25219179 Susie's Restaurant
Pace Project No.: 10501881

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10501881001	**MH 7-149**	TO-15	649172		
10501881002	**MH 7-142**	TO-15	649172		
10501881003	**MH 7-139**	TO-15	649172		
10501881004	**MH 7-143**	TO-15	649172		
10501881005	**MH 7-146**	TO-15	649172		
10501881006	**IA-1 2614 Custer bsmt.**	TO-15	649172		
10501881007	**IA-2 2614 Custer LR**	TO-15	649172		
10501881008	**IA-3 Golden Flame bsmt.**	TO-15	649172		
10501881009	**IA-4 Golden Flame Mens**	TO-15	649172		
10501881010	**IA-5 Golden Flame DR**	TO-15	649172		
10501881011	**IA-6 2616 Washington Up**	TO-15	649172		
10501881012	**IA-7 2616 Washington down**	TO-15	649172		
10501881013	**IA-8 1002 26th upstairs**	TO-15	649172		
10501881014	**IA-9 1002 26th down st.**	TO-15	649172		
10501881015	**IA-10 2525 Washington**	TO-15	649172		
10501881018	**VP-9 2525 Washington**	TO-15	649172		

Pace Analytical®
www.pacelabs.com

WO# : 10501881

10501881

R: CHAIN-OF-CUSTODY / Analytical Request Document

n-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

48291

Page: 1 of 2

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Drive
Madison WI 53718
Email To: rlangdon@scsengineers.com
Phone: 608-216-7329 Fax: 608 224 2839
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Robert Langdon
Copy To:
Purchase Order No.:
Project Name: Susie's Restaurant
Project Number: 25219179

Invoice Information:

Attention: Robert Langdon
Company Name: SCS Engineers
Address: 2830 Dairy Drive, Madison WI
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 32630

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☒ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	MH 7-149	1LC	23	12/3/19	10:19	12/3/19	10:24	29	7	2496	1177						✓				001
2	MH 7-142	1LC	0	12/3/19	10:49	12/3/19	10:54	28	6	1016	2522						✓				002
3	MH 7-139	1LC	0	12/3/19	11:08	12/3/19	11:13	29	7	3283	0708						✓				003
4	MH 7-143	1LC	0	12/3/19	11:40	12/3/19	11:45	29	5	2575	1698						✓				004
5	MH 7-146	1LC	0	12/3/19	12:12	12/3/19	12:17	28	6	2237	1823						✓				005
6	IA-1 2614 Custer bsmt.	6LC	0	12/2/19	13:47	12/3/19	13:50	30	10	0291	0260						✓				006
7	IA-2 2614 Custer LR	6LC	-	12/2/19	13:49	12/3/19	8:42	20	0	0503	1350						✓				007
8	IA-3 Golden Flame bsmt.	6LC	0	12/3/19	6:38	12/3/19	14:40	28	4	2710	1956						✓				008
9	IA-4 Golden Flame Mens	6LC	0	12/3/19	6:20	12/3/19	14:22	30	3	2298	1254						✓				009
10	IA-5 Golden Flame DR	6LC	0	12/3/19	6:33	12/3/19	14:34	30	3	3550	1850						✓				010
11	IA-6 2616 Washington UP	6LC	0	12/3/19	7:50	12/3/19	15:21	28	4	3565	1794						✓				011
12	IA-7 2616 Washington down	6LC	0	12/3/19	7:52	12/3/19	15:23	26	3	1208	1868						✓				012

Comments: Ambient air at IA-6 and IA-7 had elevated PID readings in the 200-400 ppm range initially, 0-16ppb when shut off

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Eric Oelkers / SCS	12/4/19	15:00	WJO Pace	12/6/19	13:30

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Eric Oelkers
SIGNATURE of SAMPLER: Eric Oelkers
DATE Signed (MM/DD/YY): 12/4/2019

SAMPLE CONDITIONS			
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

ORIGINAL

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

48292 | Page: 2 of 2

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Drive
Madison WI 53718
Email To: rlangdon@scsengineers.com
Phone: 6082167329 Fax: 6082242839
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Robert Langdon
Copy To:
Purchase Order No.:
Project Name: Susie's Restaurant
Project Number: 25219179

Section C Invoice Information:

Attention: Robert Langdon
Company Name: SCS Engineers
Address: 2830 Dairy Drive, Madison WI
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 32630

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☒ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	IA-5 1002 26th upstairs	GLC	0	12/3/19	8:19	12/3/19	15:46	28	4	3612	1790						✓				013
2	IA-9 1002 26th downst	GLC		12/3/19	8:20	12/3/19	6:32	30	5	3341	1789						✓				014
3	IA-10 2525 Washington	GLC		12/3/19	8:07	12/3/19	15:46	29	4	2675	1679						✓				015
4	Not used - no vacuum	GLC		12/3/19	6:30	—	—	0	—	0585	0227						✓				016
5	1002 S. 26th VP-7	GLC		wet - no sample																	017
6	VP-8 2616 Washington	GLC		wet - no sample																	019
7	VP-9 2525 Washington	GLC		12/4/19	9:46	12/4/19	10:21	30	6	0171	0505						✓				018
8	VP-11R 2614 Custer	GLC		12/3/19	wet - no sample																020
9																					KNH 12/13/19
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Eric Oelkers / SCS	12/4/19	15:00	WJ Pace	12/6/19	13:30

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Eric Oelkers
SIGNATURE of SAMPLER: Eric Oelkers
DATE Signed (MM/DD/YY): 12/4/2019

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 14Oct2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.19	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt **Client Name:** SCS Engineering **Project #:**

WO#: 10501881

PM: KNH Due Date: 12/13/19

CLIENT: SCS Engineer

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial See Exception

Tracking Number: 1083 0282 5768 / 5857 / 5835 / 5824 / 5846

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** WHO 12/9/19

Type of Ice Received ☐ Blue ☐ Wet ☑ None

		Comments:
Chain of Custody Present?	☑ Yes ☐ No	1.
Chain of Custody Filled Out?	☑ Yes ☐ No	2.
Chain of Custody Relinquished?	☑ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☑ No	6.
Rush Turn Around Time Requested?	☐ Yes ☑ No	7.
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used?	☑ Yes ☐ No	9.
-Pace Containers Used?	☑ Yes ☐ No	
Containers Intact?	☑ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☑ Yes ☐ No	13.

Gauge # ☑ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
MH 7-149	2496	1177	-5	+10	IA-4	2298	1254	-3	+5
MH 7-142	1016	2822	-5	+10	IA-5	3550	1850	-2	+5
MH7-139	3283	0708	-5	+10	IA-6	3565	1794	-5	+5
MH7-143	2575	1698	-3	+10	IA-7	1208	1868	-5	+5
MH7-146	2237	1823	-4	+10	IA-8	3612	1790	-2	+5
IA-1	0291	0260	-8	+5	IA-9	3341	1789	-2	+5
IA-2	0803	1350	-8	+5	IA-10	2675	1679	-5	+5
IA-3	2710	1986	-3	+5	Unused Can	0885	0227	0	—

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 12/9/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 14Oct2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.19	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: _____ **Project #:** _____

Courier: ☐Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial **See Exception** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☐No **Seals Intact?** ☐Yes ☐No

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐Foam ☐None ☐Tin Can ☐Other:_____ **Temp Blank rec:** ☐Yes ☐No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermometer Used:** ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** _____

Type of ice Received ☐Blue ☐Wet ☐None

		Comments:
Chain of Custody Present?	☐Yes ☐No	1.
Chain of Custody Filled Out?	☐Yes ☐No	2.
Chain of Custody Relinquished?	☐Yes ☐No	3.
Sampler Name and/or Signature on COC?	☐Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☐Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☐No	6.
Rush Turn Around Time Requested?	☐Yes ☐No	7.
Sufficient Volume?	☐Yes ☐No	8.
Correct Containers Used?	☐Yes ☐No	9.
-Pace Containers Used?	☐Yes ☐No	
Containers Intact?	☐Yes ☐No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y N (list which samples)
Is sufficient information available to reconcile samples to the COC?	☐Yes ☐No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☐Yes ☐No	13.

Gauge # ☑10AIR26 ☐10AIR34 ☐10AIR35 ☐4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Unused Can	0317	0829	-29	—					
VP-9	0171	1816	-5	+5					
Unused Can	1593	1644	-28	—					
Unused Can	0147	1213	-29	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 07, 2020

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Dear Rob Langdon:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10526973001	**MH 7-162**	Air	07/29/20 11:06	07/31/20 11:00
10526973002	**MH 7-150**	Air	07/29/20 10:47	07/31/20 11:00
10526973003	**MH 7-149**	Air	07/29/20 11:30	07/31/20 11:00
10526973004	**MH 7-179**	Air	07/29/20 11:57	07/31/20 11:00
10526973005	**MH 7-159**	Air	07/29/20 12:21	07/31/20 11:00
10526973006	**Unused Can #1084**	Air	07/29/20 00:00	07/31/20 11:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10526973001	**MH 7-162**	TO-15	MJL	5	PASI-M
10526973002	**MH 7-150**	TO-15	AFV	5	PASI-M
10526973003	**MH 7-149**	TO-15	AFV	5	PASI-M
10526973004	**MH 7-179**	TO-15	MJL	5	PASI-M
10526973005	**MH 7-159**	TO-15	MJL	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10526973001	**MH 7-162**					
TO-15	Tetrachloroethene	1.2	ug/m3	1.1	08/04/20 15:29	
10526973002	**MH 7-150**					
TO-15	cis-1,2-Dichloroethene	1.3J	ug/m3	1.5	08/04/20 05:30	
TO-15	trans-1,2-Dichloroethene	0.34J	ug/m3	1.5	08/04/20 05:30	
TO-15	Trichloroethene	2.9	ug/m3	1.0	08/04/20 05:30	
10526973003	**MH 7-149**					
TO-15	cis-1,2-Dichloroethene	44.6	ug/m3	1.4	08/04/20 06:05	
TO-15	trans-1,2-Dichloroethene	7.9	ug/m3	1.4	08/04/20 06:05	
TO-15	Tetrachloroethene	3.9	ug/m3	1.2	08/04/20 06:05	
TO-15	Trichloroethene	51.7	ug/m3	0.96	08/04/20 06:05	
TO-15	Vinyl chloride	0.87	ug/m3	0.46	08/04/20 06:05	
10526973004	**MH 7-179**					
TO-15	Tetrachloroethene	1.8	ug/m3	1.2	08/04/20 15:02	
TO-15	Trichloroethene	0.58J	ug/m3	0.93	08/04/20 15:02	
10526973005	**MH 7-159**					
TO-15	cis-1,2-Dichloroethene	0.62J	ug/m3	1.4	08/04/20 14:36	
TO-15	trans-1,2-Dichloroethene	0.75J	ug/m3	1.4	08/04/20 14:36	
TO-15	Tetrachloroethene	0.57J	ug/m3	1.2	08/04/20 14:36	
TO-15	Trichloroethene	5.5	ug/m3	0.92	08/04/20 14:36	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Sample: MH 7-162 **Lab ID: 10526973001** Collected: 07/29/20 11:06 Received: 07/31/20 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**<0.26**	ug/m3	1.3	0.26	1.61		08/04/20 15:29	156-59-2	
trans-1,2-Dichloroethene	**<0.27**	ug/m3	1.3	0.27	1.61		08/04/20 15:29	156-60-5	
Tetrachloroethene	**1.2**	ug/m3	1.1	0.46	1.61		08/04/20 15:29	127-18-4	
Trichloroethene	**<0.28**	ug/m3	0.88	0.28	1.61		08/04/20 15:29	79-01-6	
Vinyl chloride	**<0.16**	ug/m3	0.42	0.16	1.61		08/04/20 15:29	75-01-4	

Sample: MH 7-150 **Lab ID: 10526973002** Collected: 07/29/20 10:47 Received: 07/31/20 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**1.3J**	ug/m3	1.5	0.29	1.83		08/04/20 05:30	156-59-2	
trans-1,2-Dichloroethene	**0.34J**	ug/m3	1.5	0.31	1.83		08/04/20 05:30	156-60-5	
Tetrachloroethene	**<0.52**	ug/m3	1.3	0.52	1.83		08/04/20 05:30	127-18-4	
Trichloroethene	**2.9**	ug/m3	1.0	0.32	1.83		08/04/20 05:30	79-01-6	
Vinyl chloride	**<0.18**	ug/m3	0.48	0.18	1.83		08/04/20 05:30	75-01-4	

Sample: MH 7-149 **Lab ID: 10526973003** Collected: 07/29/20 11:30 Received: 07/31/20 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**44.6**	ug/m3	1.4	0.28	1.75		08/04/20 06:05	156-59-2	
trans-1,2-Dichloroethene	**7.9**	ug/m3	1.4	0.29	1.75		08/04/20 06:05	156-60-5	
Tetrachloroethene	**3.9**	ug/m3	1.2	0.50	1.75		08/04/20 06:05	127-18-4	
Trichloroethene	**51.7**	ug/m3	0.96	0.31	1.75		08/04/20 06:05	79-01-6	
Vinyl chloride	**0.87**	ug/m3	0.46	0.18	1.75		08/04/20 06:05	75-01-4	

Sample: MH 7-179 **Lab ID: 10526973004** Collected: 07/29/20 11:57 Received: 07/31/20 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**<0.28**	ug/m3	1.4	0.28	1.71		08/04/20 15:02	156-59-2	
trans-1,2-Dichloroethene	**<0.29**	ug/m3	1.4	0.29	1.71		08/04/20 15:02	156-60-5	
Tetrachloroethene	**1.8**	ug/m3	1.2	0.49	1.71		08/04/20 15:02	127-18-4	
Trichloroethene	**0.58J**	ug/m3	0.93	0.30	1.71		08/04/20 15:02	79-01-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Sample: MH 7-179 **Lab ID: 10526973004** Collected: 07/29/20 11:57 Received: 07/31/20 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Vinyl chloride	**<0.17**	ug/m3	0.44	0.17	1.71		08/04/20 15:02	75-01-4	

Sample: MH 7-159 **Lab ID: 10526973005** Collected: 07/29/20 12:21 Received: 07/31/20 11:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
cis-1,2-Dichloroethene	**0.62J**	ug/m3	1.4	0.27	1.68		08/04/20 14:36	156-59-2	
trans-1,2-Dichloroethene	**0.75J**	ug/m3	1.4	0.28	1.68		08/04/20 14:36	156-60-5	
Tetrachloroethene	**0.57J**	ug/m3	1.2	0.48	1.68		08/04/20 14:36	127-18-4	
Trichloroethene	**5.5**	ug/m3	0.92	0.30	1.68		08/04/20 14:36	79-01-6	
Vinyl chloride	**<0.17**	ug/m3	0.44	0.17	1.68		08/04/20 14:36	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

QC Batch: 690501
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10526973002, 10526973003

METHOD BLANK: 3692220 Matrix: Air
Associated Lab Samples: 10526973002, 10526973003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.080	0.40	08/03/20 18:56	
Tetrachloroethene	ug/m3	<0.14	0.34	08/03/20 18:56	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	08/03/20 18:56	
Trichloroethene	ug/m3	<0.088	0.27	08/03/20 18:56	
Vinyl chloride	ug/m3	<0.050	0.13	08/03/20 18:56	

LABORATORY CONTROL SAMPLE: 3692221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.8	44.6	107	70-132	
Tetrachloroethene	ug/m3	74.9	72.2	96	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	43.5	104	70-132	
Trichloroethene	ug/m3	56.7	56.3	99	70-132	
Vinyl chloride	ug/m3	28.5	25.8	90	68-141	

SAMPLE DUPLICATE: 3692662

Parameter	Units	10526910001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.22		25	
Tetrachloroethene	ug/m3	ND	0.43J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.23		25	
Trichloroethene	ug/m3	ND	<0.24		25	
Vinyl chloride	ug/m3	ND	<0.14		25	

SAMPLE DUPLICATE: 3692663

Parameter	Units	10526979001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.22	<0.22		25	
Tetrachloroethene	ug/m3	1.3	1.3	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.23	<0.23		25	
Trichloroethene	ug/m3	<0.24	<0.24		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

QC Batch: 690656
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10526973001, 10526973004, 10526973005

METHOD BLANK: 3692784 Matrix: Air
Associated Lab Samples: 10526973001, 10526973004, 10526973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.080	0.40	08/04/20 08:54	
Tetrachloroethene	ug/m3	<0.14	0.34	08/04/20 08:54	
trans-1,2-Dichloroethene	ug/m3	0.090J	0.40	08/04/20 08:54	
Trichloroethene	ug/m3	<0.088	0.27	08/04/20 08:54	
Vinyl chloride	ug/m3	<0.050	0.13	08/04/20 08:54	

LABORATORY CONTROL SAMPLE: 3692785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	41.6	100	70-132	
Tetrachloroethene	ug/m3	71	66.5	94	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.2	102	70-132	
Trichloroethene	ug/m3	56.3	52.7	94	70-132	
Vinyl chloride	ug/m3	26.7	31.6	119	68-141	

SAMPLE DUPLICATE: 3693761

Parameter	Units	10526924003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.34		25	
Tetrachloroethene	ug/m3	ND	<0.61		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.36		25	
Trichloroethene	ug/m3	ND	<0.37		25	
Vinyl chloride	ug/m3	ND	<0.21		25	

SAMPLE DUPLICATE: 3693762

Parameter	Units	10527077003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.27		25	
Tetrachloroethene	ug/m3	ND	<0.48		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
Trichloroethene	ug/m3	ND	<0.30		25	
Vinyl chloride	ug/m3	ND	<0.17		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25219179.00 Susie's Restaurant
Pace Project No.: 10526973

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10526973001	**MH 7-162**	TO-15	690656		
10526973002	**MH 7-150**	TO-15	690501		
10526973003	**MH 7-149**	TO-15	690501		
10526973004	**MH 7-179**	TO-15	690656		
10526973005	**MH 7-159**	TO-15	690656		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Ar

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fiel

WO# : 10526973

10526973

41446

Page: 1 of 1

Section A Required Client Information:

Company: SCS Engineers
Address: 2830 Dairy Dr
Madison, WI 53718
Email To: rlangdon@scsengineers.com
Phone: 6082723995 Fax: —
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Robert Langdon
Copy To:
Purchase Order No.: —
Project Name: Sugi's Restaurant
Project Number: 25219179.00

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 32630

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ ☐ mg/m³ ☐ PPBV ☒ PPMV ☐ Other ☐

Report Level II. ☐ III. ☐ IV. ☐ Other ☐

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	MH 7-162	6C	3.2	7/29/20	1102	7/29/20	1106	29	5	1214	0905							X			001
2	MH 7-150		3.5		1017		1047	29	10	3617	1561							X			002
3	MH 7-149		4.8		1125		1130	29	6	2826	2837							X			003
4	MH 7-179		2.5		1154		1157	29	5.5	2123	1114							X			004
5	MH 7-159 TBL MH 159		3.8		1291		1221	29	5	2673	1593							X			005
6	Unused Can									1084	2836										
7																					
8																					
9																					
10																					
11																					
12																					

Comments: * Analyze for PCE, TCE, Cis 12DCE, Trans 12 DCE, and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Robert	7/30	1700	[signature] Pace	7/31/20	11:00

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Robert Langdon

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 7/30/20

ORIGINAL

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 24Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.00**	Pace Analytical Services - **Minneapolis**

Air Sample Condition Upon Receipt **Client Name:** SCS **Project #:** **WO#: 10526973**

PM: KNH Due Date: 08/07/20
CLIENT: SCS Engineer

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial **See Exception**

Tracking Number: 1723 2544 3269,3270 ☐

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☒Foam ☐None ☐Tin Can ☐Other:_____ **Temp Blank rec:** ☐Yes ☒No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** —

Thermometer Used: ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** —

Date & Initials of Person Examining Contents: RG 7/31/20

Type of Ice Received ☐Blue ☐Wet ☒None

		Comments:
Chain of Custody Present?	☒Yes ☐No	1.
Chain of Custody Filled Out?	☒Yes ☐No	2.
Chain of Custody Relinquished?	☒Yes ☐No	3.
Sampler Name and/or Signature on COC?	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☒Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☒No	6.
Rush Turn Around Time Requested?	☐Yes ☒No	7.
Sufficient Volume?	☒Yes ☐No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒Yes ☐No ☒Yes ☐No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒Yes ☐No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒Yes ☐No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒Yes ☐No	13.

Gauge # ☐10AIR26 ☐10AIR34 ☐10AIR35 ☐4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
162	1214	905	-5	+5					
150	3617	1561	-8	"					
149	2826	2837	-7	"					
179	2123	1114	-6.5	"					
159	2673	1593	-6	"					
unused	1084	28360	-30						

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 7/31/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10526973
Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973001
Client Sample ID: MH 7-162

ProjSampleNum: 10526973001
Matrix: Air

Date Collected: 07/29/20 11:06
Date Received: 07/31/20 11:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.065	ppbv	0.32	1.61	08/04/20 15:29 MJL	156-59-2	
Tetrachloroethene	0.17	ppbv	0.16	1.61	08/04/20 15:29 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.067	ppbv	0.32	1.61	08/04/20 15:29 MJL	156-60-5	
Trichloroethene	<0.051	ppbv	0.16	1.61	08/04/20 15:29 MJL	79-01-6	
Vinyl chloride	<0.062	ppbv	0.16	1.61	08/04/20 15:29 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10526973
Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973002
Client Sample ID: MH 7-150

ProjSampleNum: 10526973002
Matrix: Air

Date Collected: 07/29/20 10:47
Date Received: 07/31/20 11:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
cis-1,2-Dichloroethene	0.32J	ppbv	0.37	1.83	08/04/20 5:30 AFV	156-59-2	
Tetrachloroethene	<0.075	ppbv	0.19	1.83	08/04/20 5:30 AFV	127-18-4	
trans-1,2-Dichloroethene	0.084J	ppbv	0.37	1.83	08/04/20 5:30 AFV	156-60-5	
Trichloroethene	0.53	ppbv	0.18	1.83	08/04/20 5:30 AFV	79-01-6	
Vinyl chloride	<0.069	ppbv	0.18	1.83	08/04/20 5:30 AFV	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10526973
Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973003
Client Sample ID: MH 7-149

ProjSampleNum: 10526973003
Matrix: Air

Date Collected: 07/29/20 11:30
Date Received: 07/31/20 11:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
cis-1,2-Dichloroethene	11.1	ppbv	0.35	1.75	08/04/20 6:05 AFV	156-59-2	
Tetrachloroethene	0.57	ppbv	0.17	1.75	08/04/20 6:05 AFV	127-18-4	
trans-1,2-Dichloroethene	2	ppbv	0.35	1.75	08/04/20 6:05 AFV	156-60-5	
Trichloroethene	9.5	ppbv	0.18	1.75	08/04/20 6:05 AFV	79-01-6	
Vinyl chloride	0.33	ppbv	0.18	1.75	08/04/20 6:05 AFV	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10526973
Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973004
Client Sample ID: MH 7-179

ProjSampleNum: 10526973004
Matrix: Air

Date Collected: 07/29/20 11:57
Date Received: 07/31/20 11:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
cis-1,2-Dichloroethene	<0.069	ppbv	0.35	1.71	08/04/20 15:02	MJL	156-59-2	
Tetrachloroethene	0.26	ppbv	0.17	1.71	08/04/20 15:02	MJL	127-18-4	
trans-1,2-Dichloroethene	<0.072	ppbv	0.35	1.71	08/04/20 15:02	MJL	156-60-5	
Trichloroethene	0.11J	ppbv	0.17	1.71	08/04/20 15:02	MJL	79-01-6	
Vinyl chloride	<0.065	ppbv	0.17	1.71	08/04/20 15:02	MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10526973
Project Name: 25219179.00 Susie's Restaurant

Lab Sample No: 10526973005
Client Sample ID: MH 7-159

ProjSampleNum: 10526973005
Matrix: Air

Date Collected: 07/29/20 12:21
Date Received: 07/31/20 11:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
cis-1,2-Dichloroethene	0.15J	ppbv	0.35	1.68	08/04/20 14:36 MJL	156-59-2	
Tetrachloroethene	0.083J	ppbv	0.17	1.68	08/04/20 14:36 MJL	127-18-4	
trans-1,2-Dichloroethene	0.19J	ppbv	0.35	1.68	08/04/20 14:36 MJL	156-60-5	
Trichloroethene	1	ppbv	0.17	1.68	08/04/20 14:36 MJL	79-01-6	
Vinyl chloride	<0.065	ppbv	0.17	1.68	08/04/20 14:36 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10526973
Project Name: 25219179.00 Susie's Restaurant

PARAMETER FOOTNOTES

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 18, 2019

Rob Langdon
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Dear Rob Langdon:
Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40200356001	**MW3-WC**	Solid	12/02/19 10:15	12/05/19 11:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40200356001	**MW3-WC**	EPA 8260	SMT	63	PASI-G
		ASTM D2974-87	QJR	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40200356001	**MW3-WC**					
EPA 8260	Trichloroethene	48.6J	ug/kg	72.0	12/06/19 13:37	
ASTM D2974-87	Percent Moisture	16.6	%	0.10	12/17/19 15:41	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Sample: MW3-WC **Lab ID: 40200356001** Collected: 12/02/19 10:15 Received: 12/05/19 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	12/06/19 08:15	12/06/19 13:37	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	12/06/19 08:15	12/06/19 13:37	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	12/06/19 08:15	12/06/19 13:37	74-83-9	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	12/06/19 08:15	12/06/19 13:37	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	12/06/19 08:15	12/06/19 13:37	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	12/06/19 08:15	12/06/19 13:37	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	12/06/19 08:15	12/06/19 13:37	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	12/06/19 08:15	12/06/19 13:37	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	12/06/19 08:15	12/06/19 13:37	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	12/06/19 08:15	12/06/19 13:37	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	12/06/19 08:15	12/06/19 13:37	106-43-4	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	12/06/19 08:15	12/06/19 13:37	96-12-8	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	12/06/19 08:15	12/06/19 13:37	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	12/06/19 08:15	12/06/19 13:37	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	563-58-6	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	12/06/19 08:15	12/06/19 13:37	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	12/06/19 08:15	12/06/19 13:37	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	12/06/19 08:15	12/06/19 13:37	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	12/06/19 08:15	12/06/19 13:37	99-87-6	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	12/06/19 08:15	12/06/19 13:37	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	1634-04-4	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	12/06/19 08:15	12/06/19 13:37	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Sample: MW3-WC **Lab ID: 40200356001** Collected: 12/02/19 10:15 Received: 12/05/19 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	79-34-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	12/06/19 08:15	12/06/19 13:37	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	108-88-3	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	12/06/19 08:15	12/06/19 13:37	87-61-6	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	12/06/19 08:15	12/06/19 13:37	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	79-00-5	W
Trichloroethene	**48.6J**	ug/kg	72.0	30.0	1	12/06/19 08:15	12/06/19 13:37	79-01-6	
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-69-4	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	12/06/19 08:15	12/06/19 13:37	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	12/06/19 08:15	12/06/19 13:37	75-01-4	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	12/06/19 08:15	12/06/19 13:37	1330-20-7	W
Surrogates									
Dibromofluoromethane (S)	86	%	57-146		1	12/06/19 08:15	12/06/19 13:37	1868-53-7	
Toluene-d8 (S)	106	%	64-134		1	12/06/19 08:15	12/06/19 13:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	54-126		1	12/06/19 08:15	12/06/19 13:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.6**	%	0.10	0.10	1		12/17/19 15:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

QC Batch: 342749
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40200356001

METHOD BLANK: 1990239
Matrix: Solid
Associated Lab Samples: 40200356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	12/06/19 10:30	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	12/06/19 10:30	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	12/06/19 10:30	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	12/06/19 10:30	
1,1-Dichloroethane	ug/kg	<13.5	50.0	12/06/19 10:30	
1,1-Dichloroethene	ug/kg	<11.8	50.0	12/06/19 10:30	
1,1-Dichloropropene	ug/kg	<10.7	50.0	12/06/19 10:30	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	12/06/19 10:30	
1,2,3-Trichloropropane	ug/kg	<37.4	125	12/06/19 10:30	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	12/06/19 10:30	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	12/06/19 10:30	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	12/06/19 10:30	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	12/06/19 10:30	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	12/06/19 10:30	
1,2-Dichloroethane	ug/kg	<13.8	50.0	12/06/19 10:30	
1,2-Dichloropropane	ug/kg	<13.5	50.0	12/06/19 10:30	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	12/06/19 10:30	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	12/06/19 10:30	
1,3-Dichloropropane	ug/kg	<11.0	50.0	12/06/19 10:30	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	12/06/19 10:30	
2,2-Dichloropropane	ug/kg	<15.7	52.0	12/06/19 10:30	
2-Chlorotoluene	ug/kg	<19.3	64.0	12/06/19 10:30	
4-Chlorotoluene	ug/kg	<19.3	64.0	12/06/19 10:30	
Benzene	ug/kg	<12.5	42.0	12/06/19 10:30	
Bromobenzene	ug/kg	<18.5	62.0	12/06/19 10:30	
Bromochloromethane	ug/kg	<20.9	70.0	12/06/19 10:30	
Bromodichloromethane	ug/kg	<10.0	50.0	12/06/19 10:30	
Bromoform	ug/kg	<21.6	72.0	12/06/19 10:30	
Bromomethane	ug/kg	<63.8	250	12/06/19 10:30	
Carbon tetrachloride	ug/kg	<7.5	50.0	12/06/19 10:30	
Chlorobenzene	ug/kg	<16.8	56.0	12/06/19 10:30	
Chloroethane	ug/kg	<46.4	250	12/06/19 10:30	
Chloroform	ug/kg	<47.5	250	12/06/19 10:30	
Chloromethane	ug/kg	<24.0	80.0	12/06/19 10:30	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	12/06/19 10:30	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	12/06/19 10:30	
Dibromochloromethane	ug/kg	<229	763	12/06/19 10:30	
Dibromomethane	ug/kg	<17.7	59.0	12/06/19 10:30	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	12/06/19 10:30	
Diisopropyl ether	ug/kg	<14.0	50.0	12/06/19 10:30	
Ethylbenzene	ug/kg	<14.5	50.0	12/06/19 10:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

METHOD BLANK: 1990239 Matrix: Solid
Associated Lab Samples: 40200356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	12/06/19 10:30	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	12/06/19 10:30	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	12/06/19 10:30	
Methylene Chloride	ug/kg	<26.3	88.0	12/06/19 10:30	
n-Butylbenzene	ug/kg	<30.0	100	12/06/19 10:30	
n-Propylbenzene	ug/kg	<17.8	59.0	12/06/19 10:30	
Naphthalene	ug/kg	<27.3	91.0	12/06/19 10:30	
p-Isopropyltoluene	ug/kg	<21.7	72.0	12/06/19 10:30	
sec-Butylbenzene	ug/kg	<21.5	72.0	12/06/19 10:30	
Styrene	ug/kg	<12.3	50.0	12/06/19 10:30	
tert-Butylbenzene	ug/kg	<18.7	62.0	12/06/19 10:30	
Tetrachloroethene	ug/kg	<38.7	129	12/06/19 10:30	
Toluene	ug/kg	<13.1	50.0	12/06/19 10:30	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	12/06/19 10:30	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	12/06/19 10:30	
Trichloroethene	ug/kg	<12.8	50.0	12/06/19 10:30	
Trichlorofluoromethane	ug/kg	<19.6	65.0	12/06/19 10:30	
Vinyl chloride	ug/kg	<14.5	50.0	12/06/19 10:30	
Xylene (Total)	ug/kg	<50.5	168	12/06/19 10:30	
4-Bromofluorobenzene (S)	%	97	54-126	12/06/19 10:30	
Dibromofluoromethane (S)	%	87	57-146	12/06/19 10:30	
Toluene-d8 (S)	%	108	64-134	12/06/19 10:30	

LABORATORY CONTROL SAMPLE: 1990240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2510	100	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2620	105	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2600	104	70-130	
1,1-Dichloroethane	ug/kg	2500	2770	111	70-130	
1,1-Dichloroethene	ug/kg	2500	2160	86	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2430	97	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2270	91	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2710	108	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2270	91	70-130	
1,2-Dichloroethane	ug/kg	2500	2620	105	70-134	
1,2-Dichloropropane	ug/kg	2500	2930	117	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2470	99	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2340	93	70-130	
Benzene	ug/kg	2500	2390	95	70-130	
Bromodichloromethane	ug/kg	2500	2100	84	70-130	
Bromoform	ug/kg	2500	2050	82	47-115	
Bromomethane	ug/kg	2500	2290	92	64-165	
Carbon tetrachloride	ug/kg	2500	2080	83	70-131	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

LABORATORY CONTROL SAMPLE: 1990240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/kg	2500	2460	98	70-130	
Chloroethane	ug/kg	2500	2810	113	28-197	
Chloroform	ug/kg	2500	2250	90	80-131	
Chloromethane	ug/kg	2500	2840	113	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2360	94	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2170	87	70-130	
Dibromochloromethane	ug/kg	2500	2090	84	70-130	
Dichlorodifluoromethane	ug/kg	2500	1870	75	38-108	
Ethylbenzene	ug/kg	2500	2520	101	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2400	96	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2590	104	70-130	
Methylene Chloride	ug/kg	2500	2000	80	70-130	
Styrene	ug/kg	2500	2290	92	70-130	
Tetrachloroethene	ug/kg	2500	2480	99	70-130	
Toluene	ug/kg	2500	2690	107	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2580	103	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2270	91	70-130	
Trichloroethene	ug/kg	2500	2520	101	70-130	
Trichlorofluoromethane	ug/kg	2500	2310	93	81-141	
Vinyl chloride	ug/kg	2500	2550	102	68-121	
Xylene (Total)	ug/kg	7500	7430	99	70-130	
4-Bromofluorobenzene (S)	%			102	54-126	
Dibromofluoromethane (S)	%			95	57-146	
Toluene-d8 (S)	%			107	64-134	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

QC Batch: 343676
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40200356001

SAMPLE DUPLICATE: 1995236

Parameter	Units	40200840001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	8.6	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25219179 SUSIES'S RESTAURANT
Pace Project No.: 40200356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40200356001	**MW3-WC**	EPA 5035/5030B	342749	EPA 8260	342754
40200356001	**MW3-WC**	ASTM D2974-87	343676		

Pace Analytical
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	SCS Engineers
Branch/Location:	Madison WI
Project Contact:	Robert Langdon
Phone:	608 216-7329
Project Number:	25219179
Project Name:	Susie's Restaurant
Project State:	Wisconsin
Sampled By (Print):	Eric Oelker
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	40200356
Mail To Contact:	Robert Langdon
Mail To Company:	SCS Engineers
Mail To Address:	2830 Dairy Drive Madison WI 53718
Invoice To Contact:	same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	608 216-7329

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW3-WC	12/2/19	10:15	S			VOC			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1: rlangdon@scsengineers.com
Email #2:
Telephone: 608 216 7329
Fax: 608 224-2839

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/4/2019 16:00		
CS Logistics	12/5/19 1150		12/5/19 1150

PACE Project No.: 40200356
Receipt Temp = 0.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present, Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: SCS Project # 40200356

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001					1														1														2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40200356

40200356

Client Name: SCS

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other foam

Thermometer Used SR - VNA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: NOC /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12/5/19
Initials:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: S	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 12/5/19

Attachment C

Vapor Sample Collection Logs

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-1 **Type** (Circle One)*: SS (IA) OA SV
Project #: 25219179.00	**Sample Intake Height:** NA for SS or SV
Location: 2614 Custer Bsmt.	**Approx. Purge Volume:** (NA) for IA/OA
Sampler: Eric Oelkers	**Approx. Sampling Depth:** (NA) for IA/OA
Sub-Slab Sample Kit #:	(NA) for IA/OA
Sub-Slab Sample Manifold #:	(NA) for IA/OA
PID #: ppbRAE	

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/2/19	13:47	30	–
12/3/19	13:50	10	~ 0 ppb

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	0291	
Flow Controller ID#	0260	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant		**Sample ID:** IA-2	**Type** (Circle One)*: SS (IA) OA SV
Project #: 25219179.00		**Sample Intake Height:**	**NA for SS or SV**
Location: 2614 Custer LR		**Approx. Purge Volume:**	(NA) **for IA/OA**
Sampler: Eric Oelkers		**Approx. Sampling Depth:**	(NA) **for IA/OA**
Sub-Slab Sample Kit #:			(NA) **for IA/OA**
Sub-Slab Sample Manifold #:			(NA) **for IA/OA**
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/2/19	13:49	20	—
12/3/19	8:42	0	—

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	0803	
Flow Controller ID#	1350	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-3	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:**		**NA for SS or SV**
Location: Golden Plains basement	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Eric Oelkers	**Approx. Sampling Depth:**		**NA for IA/OA**
Sub-Slab Sample Kit #:			**NA for IA/OA**
Sub-Slab Sample Manifold #:			**NA for IA/OA**
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/3/19	6:38	-28	0
12/3/19	14:40	-4	0

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	2710	
Flow Controller ID#	1986	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant		**Sample ID:** IA-4	**Type** (Circle One)*: SS (IA) OA SV
Project #: 25219179.00		**Sample Intake Height:**	NA for SS or SV
Location: Golden Flame Mens Room		**Approx. Purge Volume:**	(NA) for IA/OA
Sampler: Eric Oelkers		**Approx. Sampling Depth:**	(NA) for IA/OA
Sub-Slab Sample Kit #:			(NA) for IA/OA
Sub-Slab Sample Manifold #:			(NA) for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
12/3/19	6:20	30	0
12/3/19	14:22	3	0

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	2298	
Flow Controller ID#	1254	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-5 **Type** (Circle One)*: **SS (IA) OA SV**
Project #: 25219179.00	**Sample Intake Height:** **NA for SS or SV**
Location: Golden Plaza Cashier	**Approx. Purge Volume:** **(NA) for IA/OA**
Sampler: Eric Oelkers	**Approx. Sampling Depth:** **(NA) for IA/OA**
Sub-Slab Sample Kit #:	**(NA) for IA/OA**
Sub-Slab Sample Manifold #:	**(NA) for IA/OA**
PID #: ppbRAE	

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/3/19	6:33	30	0
12/3/19	14:34	3	0

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	3550	
Flow Controller ID#	1850	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-6	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:** 4'		**NA for SS or SV**
Location: 2616 Washington Upstairs	**Approx. Purge Volume:**		(NA) for IA/OA
Sampler: Eric Oelkers	**Approx. Sampling Depth:**		(NA) for IA/OA
Sub-Slab Sample Kit #:			(NA) for IA/OA
Sub-Slab Sample Manifold #:			(NA) for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
12/3/19	7:50	28	27 ppm
12/3/19	15:21	4	16 ppb

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	3565	
Flow Controller ID#	1794	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-7	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:** 2.5'		**NA for SS or SV**
Location: 2616 Washington - Downstairs	**Approx. Purge Volume:**		(NA) for IA/OA
Sampler: Eric Oelkers	**Approx. Sampling Depth:**		(NA) for IA/OA
Sub-Slab Sample Kit #:			(NA) for IA/OA
Sub-Slab Sample Manifold #:			(NA) for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
12/3/19	7:52	26	416 ppm
12/3/19	15:23	4	0 ppb

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	1208	
Flow Controller ID#	1868	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-8	**Type** (Circle One)*: SS (IA) OA SV
Project #: 25219179.00	**Sample Intake Height:** 5 '	NA for SS or SV
Location: 1022 26th St Upstairs	**Approx. Purge Volume:**	(NA) for IA/OA
Sampler: Eric Oelkers	**Approx. Sampling Depth:**	(NA) for IA/OA
Sub-Slab Sample Kit #:		(NA) for IA/OA
Sub-Slab Sample Manifold #:		(NA) for IA/OA
PID #: ppbRAE		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/3/19	8:19	28	0
12/3/19	16:30	4	0

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	3612	
Flow Controller ID#	1790	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-9	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:** 4.5		**NA for SS or SV**
Location: 1002 26th St Downstairs	**Approx. Purge Volume:**		(NA) for IA/OA
Sampler: Eric Oelkers	**Approx. Sampling Depth:**		(NA) for IA/OA
Sub-Slab Sample Kit #:			(NA) for IA/OA
Sub-Slab Sample Manifold #:			(NA) for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/3/19	8:20	30	62 ppb
12/3/19	16:32	5	0

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	3341	
Flow Controller ID#	1784	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-10	**Type** (Circle One)*: SS (IA) OA SV
Project #: 25219179.00	**Sample Intake Height:** 4'	NA for SS or SV
Location: 2525 Washington	**Approx. Purge Volume:**	NA for (IA)/OA
Sampler: Eric Oelkers	**Approx. Sampling Depth:**	(NA) for IA/OA
Sub-Slab Sample Kit #:		(NA) for IA/OA
Sub-Slab Sample Manifold #:		(NA) for IA/OA
PID #: ppbRAE		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
12/3/19	8:07	29	–
12/3/19	15:46	4	0 ppb

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	2615	
Flow Controller ID#	1679	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** VP-1R	**Type** (Circle One): **SS** IA OA SV	
Project #: 25219179.00	**Sample Intake Height:** NA		**NA for SS or SV**
Location: VP 1A R	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Eric Oelkers	**Approx. Sampling Depth:** 0-6"		**NA for IA/OA**
Sub-Slab Sample Kit #: 1			**NA for IA/OA**
Sub-Slab Sample Manifold #: 1			**NA for IA/OA**
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	0317	
Flow Controller ID#	0829	

Sub-Slab Tests Passed?

Water Dam:	(Yes)	**No**
Shut-In:	(Yes)	**No**

Holding @ 46" wc

General Notes/Observations:

drill bit had very moist/wet soil when withdrawn from hole No sample - water comes up in tube during purging

VP-1R is located 7.5' west of VP-1

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** VP-7	**Type** (Circle One)* (SS) IA OA SV	
Project #: 25219179.00	**Sample Intake Height:** —		**NA for SS or SV**
Location: 1002 26th St	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Eric Oelkers	**Approx. Sampling Depth:** 0.5		**NA for IA/OA**
Sub-Slab Sample Kit #: 1			**NA for IA/OA**
Sub-Slab Sample Manifold #: 1			**NA for IA/OA**
PID #: (ppbRAE)			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#		
Flow Controller ID#		

Sub-Slab Tests Passed?

Water Dam:	(Yes)	**No**
Shut-In:	(Yes)	**No**

purge vacuum 44" WC

General Notes/Observations:

Water comes up in sample purge line

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** VP-8	**Type** (Circle One)*: (SS) IA OA SV	
Project #: 25219179.00	**Sample Intake Height:** —		**NA for SS or SV**
Location: 2616 Washington	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Eric Oelkers	**Approx. Sampling Depth:**		**NA for IA/OA**
Sub-Slab Sample Kit #: NA			**NA for IA/OA**
Sub-Slab Sample Manifold #: NA			**NA for IA/OA**
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)

Summa Canister Information:

Canister Size:	**1L**	**6L**
Canister ID#		
Flow Controller ID#		

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

water rose in hole as soon as drill bit was withdrawn - installed vapor pin but did not attempt to sample

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** VP-9	**Type** (Circle One)*: (SS) IA OA SV	
Project #: 25219179.00	**Sample Intake Height:** —		**NA for SS or SV**
Location: 2525 ~~26~~ Washington St	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Eric Oelkers	**Approx. Sampling Depth:** 3" below floor		**NA for IA/OA**
Sub-Slab Sample Kit #: 1			**NA for IA/OA**
Sub-Slab Sample Manifold #: 1			**NA for IA/OA**
PID #: (ppbRAE)			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
12/4/19	9:46	30"	0
12/4/19	10:21	6"	bouncing 170-400 ppb

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	0171	
Flow Controller ID#	1505	

Sub-Slab Tests Passed?

Water Dam:	(Yes)	**No**
Shut-In:	(Yes)	**No**

52"WC for 2 min

General Notes/Observations:

purged 4 min w ppbRAE 0 ppb

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Downstairs

Project: Susie's Restaurant	**Sample ID:** IA-3	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:** ~ 6'		**NA for SS or SV**
Location: Golden Flame	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Robert Langdon	**Approx. Sampling Depth:**		**NA for IA/OA**
Sub-Slab Sample Kit #: —			**NA for IA/OA**
Sub-Slab Sample Manifold #: —			**NA for IA/OA**
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
~~4/10/20~~ 4/11/20	700	-29.5	~~620~~ 1295
		-5	—

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	1616	
Flow Controller ID#	0456	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

MRN's Rm
upstairs

Project: Susie's Restaurant	**Sample ID:** IA-4	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:** ~ 1'		NA for SS or SV
Location: Colder Plaza	**Approx. Purge Volume:**		(NA for IA/OA)
Sampler: Robert Langdon	**Approx. Sampling Depth:**		(NA for IA/OA)
Sub-Slab Sample Kit #:			(NA for IA/OA)
Sub-Slab Sample Manifold #:			(NA for IA/OA)
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))	
2/11/20	652	-30	520	RBL
	1430	-5	—	

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	2355	
Flow Controller ID#	0334	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Cashiers desk upstairs

Project:	Susie's Restaurant	**Sample ID:** IA-5	**Type** (Circle One)*: SS (IA) OA SV
Project #:	25219179.00	**Sample Intake Height:** ~1'	**NA for SS or SV**
Location:	Golden Planet	**Approx. Purge Volume:**	**NA for IA/OA**
Sampler:	Robert Langdon	**Approx. Sampling Depth:**	**NA for IA/OA**
Sub-Slab Sample Kit #:			**NA for IA/OA**
Sub-Slab Sample Manifold #:			**NA for IA/OA**
PID #:	ppbRAE		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/14/20	652	-30	0 ppbV
	1430	-5	—

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	3890	
Flow Controller ID#	0210	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

upstairs

Project: Susie's Restaurant	**Sample ID:** IA-6	**Type** (Circle One)*: SS (IA) OA SV	
Project #: 25219179.00	**Sample Intake Height:** ~ 4'		NA for SS or SV
Location: 2616 Washington	**Approx. Purge Volume:**		NA for IA/OA
Sampler: Robert Langdon	**Approx. Sampling Depth:**		NA for IA/OA
Sub-Slab Sample Kit #:			NA for IA/OA
Sub-Slab Sample Manifold #:			NA for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/(ppb))
2/11/20	755	-30	54
	1516	-8	—

Summa Canister Information:

Canister Size:	1L	(6L)
Canister ID#	3649	
Flow Controller ID#	1085	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Down stairs

Project:	Susie's Restaurant	**Sample ID:** IA-7	**Type** (Circle One)*: SS IA OA SV
Project #:	25219179.00	**Sample Intake Height:**	**NA for SS or SV**
Location:	1616 Washington	**Approx. Purge Volume:**	**NA for IA/OA**
Sampler:	Robert Langdon	**Approx. Sampling Depth:**	**NA for IA/OA**
Sub-Slab Sample Kit #:			**NA for IA/OA**
Sub-Slab Sample Manifold #:			**NA for IA/OA**
PID #:	ppbRAE		

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/4/20	800	-30	26
	1517	-9	—

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	2311	
Flow Controller ID#	0853	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

upstairs

Project: Susie's Restaurant	**Sample ID:** IA-8	**Type** (Circle One)*: SS IA OA SV	
Project #: 25219179.00	**Sample Intake Height:** ~ 4'		NA for SS or SV
Location: 1002 26th st	**Approx. Purge Volume:**		NA for IA/OA
Sampler: Robert Langdon	**Approx. Sampling Depth:**		NA for IA/OA
Sub-Slab Sample Kit #:			NA for IA/OA
Sub-Slab Sample Manifold #:			NA for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
~~2/10/20~~ 2/11/20	720	-30	~~64~~ 0
↓	1446	-6	—

PEV

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	3887	
Flow Controller ID#	0224	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Downstairs

Project: Susie's Restaurant	**Sample ID:** IA-9	**Type** (Circle One)*:	SS IA OA SV
Project #: 25219179.00	**Sample Intake Height:** ~4'		NA for SS or SV
Location: 1002 26th St	**Approx. Purge Volume:**		NA for IA/OA
Sampler: Robert Langdon	**Approx. Sampling Depth:**		NA for IA/OA
Sub-Slab Sample Kit #:			NA for IA/OA
Sub-Slab Sample Manifold #:			NA for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/11/20	725	-29.5	93 TRL
↓	1446	-4	—

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	3597	
Flow Controller ID#	0321	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
SS = Sub-Slab
IA = Indoor Air
OA = Outdoor Air
SV = Sewer Vapor

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** IA-10 **Type** (Circle One)*: SS (IA) OA SV
Project #: 25219179.00	**Sample Intake Height:** ~4' **NA for SS or SV**
Location: 2525 Washington	**Approx. Purge Volume:** **NA for IA/OA**
Sampler: Robert Langdon	**Approx. Sampling Depth:** **NA for IA/OA**
Sub-Slab Sample Kit #:	**NA for IA/OA**
Sub-Slab Sample Manifold #:	**NA for IA/OA**
PID #: ppbRAE	

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/11/20	820	~~30~~ -30	306
	1553	-1	—

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	1724	
Flow Controller ID#	24980	

Sub-Slab Tests Passed?

Water Dam:	**Yes**	**No**
Shut-In:	**Yes**	**No**

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** OA-2	**Type** (Circle One)*: SS IA (OA) SV	
Project #: 25219179.00	**Sample Intake Height:** ~ 5'		**NA for SS or SV**
Location:	**Approx. Purge Volume:**		**NA for IA/OA**
Sampler: Robert Langdon	**Approx. Sampling Depth:**		**NA for IA/OA**
Sub-Slab Sample Kit #:			**NA for IA/OA**
Sub-Slab Sample Manifold #:			**NA for IA/OA**
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/11/20	810	-30	0
↓	1542	-5	—

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	0123	
Flow Controller ID#	0047	

Sub-Slab Tests Passed?

Water Dam:	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Vapor Assessment
Sample Collection Log

Project: Susie's Restaurant	**Sample ID:** VP-9	**Type** (Circle One)*:	SS IA OA SV
Project #: 25219179.00	**Sample Intake Height:**		NA for SS or SV
Location:	**Approx. Purge Volume:**	~ 1 L	NA for IA/OA
Sampler: Robert Langdon	**Approx. Sampling Depth:**	~ 6"	NA for IA/OA
Sub-Slab Sample Kit #: 1			NA for IA/OA
Sub-Slab Sample Manifold #: 1			NA for IA/OA
PID #: ppbRAE			

Instrument Readings:

Date	Time	Canister Vacuum (" of Hg)	PID Reading (ppm/ppb)
2/12/20	8:18	-30	110
	8:48	-8.5	—

Summa Canister Information:

Canister Size:	1L	6L
Canister ID#	75	
Flow Controller ID#	1518	

Sub-Slab Tests Passed?

Water Dam;	Yes	No
Shut-In:	Yes	No

General Notes/Observations:

Abbreviations:

NA = Not Applicable
IA = Indoor Air
SV = Sewer Vapor
SS = Sub-Slab
OA = Outdoor Air

Attachment D

Waste Disposal Documentation

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
SCS Engineers **2830 Dairy Drive** **Madison WI 53718** **4. Generator's Phone 608-212-3995**	**Wisconsin DNR** **2604 Custer St** **Manitowoc, WI 54220**	**WMNA** B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 13814 D. Transporter's Phone 608 224-2830
SCS Engineers		
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address Madison Prairie Landfill 6002 Nelson Rd Sun Prairie, WI 53590	**10. US EPA ID Number**	G. State Facility ID H. State Facility Phone 608-837-9031

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. TCE-contaminated soil	1	DM			
WM Profile # 134142WI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
BILL TO: 25219179 T9	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.: **608-212-3995**

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Eric Oelkers	Eric Oelkers for WDNR	10	6	20

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Eric Oelkers	Eric Oelkers	10	6	20

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Madison Prairie Landfill
6002 NELSON ROAD
SUN PRAIRIE, WI, 53590
Ph: 608-837-9031

Original
Ticket# 387370

Customer Name SCSENGINEERS SCS ENGINEERS
Ticket Date 10/06/2020
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code A-24-06
Manifest 0
Destination
PO
Profile 134142WI (TCE CONTAMINATED SOIL WM012A)
Generator 136-WIDOT WI DOT

Carrier SCS RED PICKUP
Vehicle# WHITE
Container
Driver
Check#
Billing # 0001588
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	10/06/2020 12:11:17	scale	akaiser		Gross	9240 lb
Out	10/06/2020 12:21:40	scale	akaiser		Tare	8780 lb
					Net	460 lb
					Tons	0.23

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-E	100	1.00	Each				
2	FUEL-Fuel Surcharg	100		%				
3	WWM-P-Waste Water	100		%				
4	EVF-L-Standard Env	100	1	Load				

Total Tax
Total Ticket

Driver`s Signature

Madison Metropolitan Sewerage District

#25219179.00
MW3 water

Firm: SCS Engineers
Driver: SCS Driver
Truck: XD80314
Comments: 25220175
19

Ticket No: 261583
Date/Time: 8/28/2020 3:25:06PM
Total Cost: $0.32

Type	Volume
Grease Trap	0
Holding Tank	0
LUST	75
Portable Toilet	0
Septic Tank	0
SettlingCatchBasin	0