

February 7, 2024
File No. 25211372.21

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

Subject: Status Update Report
Pilgrim Cleaners, 7475 Mineral Point Road, Madison, Wisconsin
BRRS #02-13-551995

Dear Ms. Koepke:

On behalf of IRC Retail Centers LLC, SCS Engineers (SCS) is providing the following status update report for the Pilgrim Cleaners site in Madison, Wisconsin (**Figures 1 and 2**). The update provides a summary of temporary shut-down of the soil vapor extraction system (SVES), building sub-slab vapor sampling, and routine groundwater monitoring. We request your approval for the following steps based on investigation and remedial action work performed to date:

- Shutdown of the SVES in March 2024.
- No further groundwater monitoring. Groundwater impacts appear to be adequately delineated and concentrations have not changed significantly since prior monitoring performed in 2013, indicating that groundwater concentrations are relatively stable.
- Sub-slab testing in the Weight Watchers unit and Balance Chi Massage unit to confirm expansion of the existing vapor mitigation system (VMS) is not necessary. We assume this work could be performed under the existing Drycleaner Environmental Repair Fund (DERF) budget.

We anticipate submittal of a case closure request assuming the above steps are approved and that additional sub-slab testing shows expansion of the VMS is not necessary.

BACKGROUND

The Pilgrim Cleaners unit within the High Point Center shopping mall was operated as a dry-cleaning facility from approximately 1984 until 2021, at which time the dry cleaner closed. The dry cleaning equipment was removed and the unit is currently vacant.

Soil and groundwater contamination related to dry cleaner operations was reported to the Wisconsin Department of Natural Resources (WDNR) in 2008. Site investigation, completed in 2015, was performed to evaluate the extent of contamination in soil, soil gas, and groundwater. A remedial action plan, including construction and operation of an SVES, was approved by the WDNR in 2016 and an interim action plan, including construction and operation of a VMS, was approved by the WDNR in 2019.



The VMS (**Figure 3**) was installed in the Pilgrim Cleaners unit and started up in July 2019. It was designed to reduce the potential for vapor intrusion into the building by depressurizing the sub-slab in an area where chlorinated volatile organic compounds (CVOCs) had been detected in sub-slab vapor in excess of WDNR vapor risk screening levels (VRSLs). VMS construction and maintenance documentation were submitted to the WDNR in a letter dated October 30, 2020.

The SVES was constructed at the back (east side) of the Pilgrim Cleaners unit and started up in October 2022. The system (**Figure 3**) was designed to remove CVOCs from soil where concentrations were shown to exceed WDNR soil-to-groundwater pathway residual contaminant levels (RCLs). An SVES construction documentation report was submitted to WDNR on January 19, 2023. The report included system operation details from system startup in October 2022 through December 2022.

By December 2022, the SVES had removed approximately 1.3 pounds of volatile organic compounds (VOCs), including approximately 0.9 pound of tetrachloroethylene (PCE). The PCE concentrations in the blower exhaust had decreased from 92,300 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at system startup in October 2022 to 1,250 $\mu\text{g}/\text{m}^3$ in December 2022.

On June 19 and 20, 2023, SCS measured water levels and collected groundwater samples from site wells. Additional details regarding the June 2023 groundwater monitoring event are provided below.

On June 26, 2023, SCS submitted a request to WDNR to temporarily shut down the VMS and SVES in order to assess current sub-slab vapor concentrations and potential “rebound” of deeper soil gas concentrations. The temporary SVES shut down was approved by WDNR as documented in an email dated June 29, 2023. In a subsequent email dated August 16, 2023, the WDNR required continued operation of the VMS due to elevated sub-slab vapor concentrations observed with prior sampling in May 2012.

TEMPORARY SVES SHUT DOWN AND MONITORING

Methods

The SVES was shut down from July 7 to October 25, 2023. During this period SCS monitored influent and exhaust concentrations with a photoionization detector (PID) or by collection of samples for laboratory analysis of VOCs. The monitoring required occasionally running the system for a few minutes at a time to purge the SVES lines and extraction wells.

Laboratory samples were collected using laboratory-supplied Summa canisters equipped with 5-minute flow controllers. The samples were analyzed by Pace Analytical for analysis of VOCs by method TO-15. PID readings were taken by SCS field staff using a RAE Systems ppbRAE 3000 PID.

Influent sampling was performed using ports on the PVC piping to each extraction well, and exhaust samples were taken from a port on the blower exhaust line. A single influent sample for laboratory analysis was collected for extraction well SVE-1 in order to assess the composition of VOCs. This well was thought to have the highest influent concentration based on PID readings. Additional laboratory exhaust samples have been collected since the system was restarted.

Results of the SVES shut-down testing are presented in the Findings section below.

On December 5, 2023, the system was shut down for approximately 1 hour to test influent for PCE using Drager colorimetric gas detection tubes. The samples were collected by connecting the sample tubes to influent line ports with flexible tubing and then pulling influent through each tube using the manufacturer's pump and sampling instructions. PCE concentrations were read directly from the scale on the side each tube.

Findings

Results from the planned July 7 to October 25, 2023, SVES shut-down period are presented below.

PID and Laboratory Sample Results

Laboratory reports are included in **Attachment A**. SVES exhaust analytical results and other details are summarized in **Attachment B**. SVES PID readings are summarized in **Table 1**.

Influent for extraction well SVE-1 generally exhibited the highest PID readings for total VOCs, followed by readings for wells SVE-3 and SVE-2. The August 16, 2023, influent sample for extraction well SVE-1 exhibited a PCE concentration of 2,700 $\mu\text{g}/\text{m}^3$ while the corresponding exhaust sample collected on the same day exhibited a PCE concentration of 1,430 $\mu\text{g}/\text{m}^3$, suggesting that the PCE influent concentration for SVE-1 is higher than the combination of influent from wells SVE-2 and SVE-3.

Elevated concentrations of constituents such as acetone, 2-butanone, and tetrahydrofuran were detected at concentrations up to 10,600,000 $\mu\text{g}/\text{m}^3$ in the SVE-1 influent sample. These constituents are not associated with dry cleaner contamination and likely originated from PVC primer or glue used to assemble the PVC piping that connects to each extraction well, and where the influent sample ports are located. PID monitoring from the SVES lines was discontinued as the instrument cannot differentiate between dry cleaner-related VOCs (e.g., PCE) and those related to SVES construction (e.g., tetrahydrofuran).

Drager Tube Samples

Drager tube analytical results are summarized in **Table 2**. PCE was not detected in Drager tube samples for extraction wells SVE-1 or SVE-2 in excess of the detection limit (0.1 parts per million [ppm]) but was detected in the sample for extraction well SVE-3 in excess of the measurement range (4 ppm). These findings are not consistent with laboratory sample results which indicate that PCE is likely present at higher concentrations in the SVE-1 influent. It is possible that by December 5, 2023, PCE influent concentrations had decreased to less than the Drager tube detection limit and that water or other constituents in the SVES piping resulted in an erroneously high PCE concentration for SVE-3. While water was not observed in any of the Drager tubes it has been observed in the SVES moisture knockout tank indicating that condensate is present in the system.

SVES Exhaust

The PCE exhaust concentration increased from 43 $\mu\text{g}/\text{m}^3$ as measured on July 5, 2023, 2 days prior to SVES shutdown to a high of 2,300 $\mu\text{g}/\text{m}^3$ as measured on October 25, 2023, immediately following restarting of the system. Based on the slope of the PCE concentration versus time curve, it appears that PCE would likely have stabilized at a concentration much lower than observed during initial startup of the SVES in October 2022. Within approximately 2.5 months of restarting the SVES, the exhaust PCE concentration dropped to 36.3 $\mu\text{g}/\text{m}^3$, which is similar to the concentration

observed prior to temporary shutdown in July 2023. These findings suggest that much of the contaminant mass from the underlying soil has been removed by the SVES.

Summary and Recommendations

SVES monitoring results indicate limited rebounding of soil gas concentrations with the SVES off and are inconclusive in determining if system performance modifications would be appropriate. However, based on the limited rebound and relatively short-term return to low SVES exhaust concentrations, it does not appear worthwhile to run the system for much longer.

Given these findings SCS recommends that the SVES continue to operate without modifications for an additional 6-month period, until approximately March 25, 2024. At that time, we propose to turn off the system and leave it in place until decommissioning is approved under regulatory case closure.

SUB-SLAB SAMPLING

Methods

Sub-slab samples were collected from the Pilgrim Cleaners and Weight Watchers units. Both units (**Figure 3**) are currently vacant and have had the highest historic sub-slab vapor CVOC concentrations based on prior testing completed in May 2012. The four original sub-slab ports were present and found to be in good condition; however, SCS replaced them with Vapor Pin™ ports for ease of sample collection and so that the ports could be capped flush with the flooring. The replacement ports were installed within a few feet of the original ports and the older ports were abandoned with concrete patch.

SCS collected sub-slab samples from the ports on October 25, 2023. The ports and SCS sampling equipment were tested for leaks prior to sample collection and no leaks were found. However, it was subsequently discovered that two of the sample canisters were faulty. One had a malfunctioning vacuum gage so vacuum could not be assessed, and a second canister had lost vacuum during return shipment to the laboratory. For this reason, samples from the Pilgrim Cleaners sub-slab port VP-2 and Weight Watchers port VP-1 were resampled on November 21, 2023. No issues were observed during the follow-up sampling event.

Findings

Sub-slab concentrations for the October and November 2023 sampling events are summarized in **Table 3** along with prior sampling results. Laboratory reports are included in **Attachment A**.

The 2023 sub-slab sample concentrations are lower than those collected previously in 2012. Samples for Weight Watchers sub-slab ports 1 and 2 and Pilgrim Cleaners port 2, which previously exhibited sub-slab VRSLs in 2012, showed no exceedances. Only PCE for the sub-slab sample from Pilgrim Cleaners sub-slab port 1 exhibited a VRSL exceedance, and the PCE concentration was a fraction of that reported for the prior sampling in 2012. There were no exceedances for TCE or any other CVOCs with the 2023 sampling events.

Summary and Recommendations

The recent sampling indicates a decrease in building sub-slab vapor concentrations and that expansion of the VMS beyond the Pilgrim Cleaners unit is not necessary. While not sampled since 2013, the Balance Chi Massage unit is the only other unit to have exhibited sub-slab exceedances. Given the relatively low 2013 concentrations for the Balance Chi Massage unit, and the significant improvement in sub-slab concentrations observed for the adjacent Weight Watchers and Pilgrim Cleaners units, it is likely that the concentrations for the Balance Chi Massage unit ports have also decreased to less than VRSLs.

Based on these findings we recommend another round of sub-slab vapor sampling for sub-slab ports in the Balance Chi Massage and Weigh Watchers units to rule out the need for expansion of the VMS.

GROUNDWATER MONITORING

Methods

On June 19 and 20, 2023, SCS measured water levels and collected groundwater samples from site monitoring wells (**Figure 2**). Monitoring well MW-3 could not be located and is believed to have been paved over since the prior sampling event in 2012. Monitoring well MW-2 was dry and could not be sampled. Samples were collected from the remaining wells by purging approximately 4 casing volumes from each well using dedicated bailers. Purge water was contained in a 55-gallon steel drum and stored behind the Pilgrim Cleaners unit for future disposal. Groundwater samples were transported to Eurofins for analysis of VOCs.

Findings

The groundwater sample laboratory report is provided in **Attachment A**, and analytical results are summarized in **Table 4**. Water level information is summarized in **Table 5**. Groundwater contour maps for shallow and deep groundwater are included as **Figures 4** and **5**, and the estimated extent of PCE in shallow and deep groundwater is shown on **Figures 6** and **7**.

The June 2023 groundwater concentrations, groundwater flow, and extent of contamination appear similar to prior groundwater monitoring and suggest that the groundwater plume is stable.

Summary and Recommendations

Based on groundwater monitoring results to date, SCS recommends that no further groundwater sampling be performed at this time.

Ms. Cindy Koepke
February 7, 2024
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Please contact Robert Langdon at 608-216-7329 if you have any questions regarding this letter.

Sincerely,



Robert Langdon
Senior Project Manager
SCS Engineers



Mark R. Huber, PE
Project Director
SCS Engineers

REL/lmh/MRH

cc: John Cresto, Pine Tree

Encl. Table 1 – Soil Vapor Extraction System PID Readings
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**Table 1. Soil Vapor Extraction System Photoionization Detector Readings
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21**

(Concentrations are in parts per million [ppm])

Date	Time	Extraction Well			SVES Exhaust	Notes
		SVE-1	SVE-2	SVE-3		
7/7/2023	11:48	NM	NM	NM	NM	Shut off SVES to start 3-month rebound monitoring period.
7/21/2023	12:30	425.2	180.0	402.4	NM	SVES influent measurements made while SVES was shutdown.
7/28/2023	13:00	7.096	4.853	12.92	NM	Turn on SVES for approximately 1 minute to purge lines and then take PID readings.
8/16/2023	13:45	445	165	385	NM	PID readings and SVE-1 influent TO-15 sample collected while SVES was shut down. Temporarily restart SVES for TO-15 exhaust sample.
8/16/2023	14:46	12.27	9.80	10.70	NM	Measure influent lines after running SVES blower for about 10 minutes.
8/16/2023	14:52	NM	NM	NM	1.64	Temporarily restart SVES for 5 minutes to take exhaust reading.
10/25/2025	17:40	NM	NM	NM	NM	Restart SVES at end of 3-month rebound monitoring period. Collect TO-15 exhaust sample.

Abbreviations:

SVE = soil vapor extraction

SVES = soil vapor extraction system

TO-15 = laboratory sample method for volatile organic compounds

PID = photoionization detector

NM = not measured

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Table 2. Soil Vapor Extraction System Influent Drager Tube Results
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21
 (Concentrations are in parts per million [ppm])

Date	Extraction Well		
	SVE-1	SVE-2	SVE-3
12/5/2023	< 0.1	< 0.1	> 4

Abbreviation:
 SVE = soil vapor extraction

Created by:	<u>REL</u>	Date:	<u>2/5/2024</u>
Last revision by:	<u>REL</u>	Date:	<u>2/5/2024</u>
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Table 3. Sub-Slab Vapor Analytical Results Summary
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21
(Concentrations are listed in parts per billion by volume [ppbv])

Current Tenant	Unit	Sample Number	Date	Lab Notes	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	PCE	TCE	Vinyl Chloride
Royal Indian Restaurant	4	1	5/7/2013	--	<40 *D	<40 *D	65	<40 *D	<40 *D
		2	5/7/2013	--	<40 *D	<40 *D	169	<40 *D	<40 *D
Look-N-Good Salon	5	1	5/7/2013	--	<40 *D	<40 *D	212	<40 *D	<40 *D
		2	5/7/2013	--	<40 *D	<40 *D	224	<40 *D	<40 *D
Hearing Life	6	1	5/8/2012	--	<100 *D	<100 *D	300	<100 *D	<100 *D
		2	5/8/2012	--	<200 *D	<200 *D	649	<200 *D	<200 *D
Vacant (Former Pilgrim Cleaners)	7	1	5/8/2012	--	<u>2,620</u>	<1330 *D	<u>6,170</u> *IS	<u>3,140</u> *IS	<1330 *D
			10/25/2023	--	147	35.3	<u>1,090</u>	5.67	<0.808
		2	5/8/2012	*IS	<u>61,000</u>	<60000 *D	<u>176,000</u>	<u>72,000</u>	<60000 *D
			11/21/2023	--	15.6	2.65	0.368	6.55	<0.316
Vacant (Former Weight Watchers)	8	1	5/8/2012	*IS	<u>31,300</u>	<20000 *D	<u>98,600</u>	<u>23,800</u>	<20000 *D
			11/21/2023	--	<0.261	<0.224	<0.271	2.08	<0.316
		2	5/8/2012	*IS	<u>15,400</u>	<12000 *D	<u>92,900</u>	<u>35,900</u>	<12000 *D
			10/25/2023	--	568	79.3	50.2	9.61	1.51
Balance Chi Massage	8B	1	5/7/2013	--	<200 *D	<200 *D	<u>1,170</u>	<200 *D	<200 *D
		2	5/7/2013	--	1,030	<800 *D	<u>1,810</u>	<800 *D	<800 *D
Dollar Tree Westfield	9-11	1	5/7/2013	--	<40 *D	<40 *D	43	<40 *D	<40 *D
		2	5/7/2013	--	<40 *D	<40 *D	41	<40 *D	<40 *D
Vapor Risk Screening Level (Small Commercial)					1,400	1,400	840	53	360

Abbreviations:

ppbv = parts per billion by volume

PCE = tetrachloroethene

TCE = trichloroethene

Notes:

1. Samples were collected in 6L summa canisters over 30-minute period and analyzed using the U.S. EPA TO-15 analytical method.
2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on August 2023 U.S. EPA Regional Screening Level Tables.
3. **Bold and underlined** values meet or exceed the Vapor Risk Screening Level.

Laboratory Notes/Qualifiers:

*D = Limit of detection not achievable due to dilution.

*IS = The internal standard quality control limit is exceeded.

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Last Rev by:	AJR	Date:	12/4/2023
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Table 4. Groundwater Analytical Results Summary - CVOCs
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21

(Results are in µg/L)

Sample	Date	Lab Notes	Chloromethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Other CVOCs
Samples Collected and Reported by Sigma Environmental							
SGP-1	8/4/2008	--	<0.5	<0.44	<u>12.1</u>	<0.47	ND
SGP-4	8/4/2008	--	<0.5	10.3	<u>158</u>	2.96	trans-1,2-Dichloroethene 1.21 J Toluene 0.51 J Vinyl Chloride <u>4.1</u>
Samples Collected by SCS Engineers							
MW1	11/22/2010	--	<u>0.30</u> J	<0.50	<u>13</u>	<0.20	ND
	8/1/2012	(2)	<0.18	<0.12	<u>17</u>	<0.19	ND
	4/5/2013	--	<0.27	<0.30	<u>26</u>	<0.50	ND
	6/19/2023	--	<0.32	<0.41	<u>7.3</u> *	<0.16	ND
MW2	11/22/2010	(1)	<u>0.30</u> J	<u>7.1</u>	<u>94</u>	<u>4.3</u>	ND
MW2P	8/1/2012	(2)	<0.18	<0.12	<u>5.8</u>	<0.19	ND
	4/5/2013	--	<0.27	<0.30	<u>5.7</u>	<0.50	ND
	6/20/2023	--	<0.32	<0.41	<u>4.2</u> *	<0.16	1,2-Dichloroethane <u>5.0</u>
	6/20/2023 (dup)	--	<0.32 F2	<0.41 F1	<u>4.4</u> *	<0.16	1,2-Dichloroethane <u>3.9</u>
MW3	11/22/2010	--	<u>0.33</u> J	<0.50	<u>16</u>	<0.20	ND
	8/1/2012	(2)	<0.18	<0.12	<u>12</u>	<0.19	ND
MW4	8/1/2012	(2)	<0.18	<0.12	<u>2.5</u>	<0.19	ND
	4/5/2013	--	<0.27	<0.30	<u>1.9</u>	<0.50	ND
	6/20/2023	--	<0.32	<0.41	<0.37 *	<0.16	ND

Table 4. Groundwater Analytical Results Summary - CVOCs
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21

(Results are in µg/L)

Sample	Date	Lab Notes	Chloromethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Other CVOCs
MW5	8/1/2012	(2)	<0.18	<0.12	<u>30</u>	0.44 J1	ND
	4/5/2013	(3)	<0.27	<0.30	<u>25</u>	<0.50	ND
	6/19/2023	--	<0.32	<0.41	<u>30</u> *	<0.16	Methylene Chloride <u>4.4</u> J2, B
MW6	8/1/2012	(2)	<0.18	<0.12	<0.17	<0.19	ND
	4/5/2013	(3)	<0.27	<0.30	<0.29	<0.50	ND
	6/19/2023	--	<0.32	<0.41	<0.37 *	<0.16	ND
MW7	8/1/2012	(2)	<0.18	<0.12	<u>14</u>	<0.19	ND
	6/19/2023	--	<0.32	<0.41	<u>15</u> *	<0.16	ND
Trip Blank	11/22/2010	--	<0.30	<0.50	<0.50	<0.20	ND
	8/1/2012	(2)	<0.18	<0.12	<0.17	<0.19	ND
	4/5/2013	--	<0.27	<0.30	<0.29	<0.50	Acetone <u>4.5</u> J2
	6/19/2023	--	<0.32	<0.41	<0.37 *	<0.16	ND
NR 140 Enforcement Standards (ESs)			3	70	5	5	Acetone 9,000 trans-1,2-Dichloroethene 100 Toluene 800 Vinyl Chloride 0.2 1,2-Dichloroethane 5.0 Methylene Chloride 5.0
NR 140 Preventive Action Limits (PALs)			0.3	7	0.5	0.5	Acetone 1,800 trans-1,2-Dichloroethene 20 Toluene 160 Vinyl Chloride 0.02 1,2-Dichloroethane 0.50 Methylene Chloride 0.50

**Table 4. Groundwater Analytical Results Summary - CVOCs
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21**

Abbreviations:

µg/L = micrograms per liter or parts per billion (ppb)
ND = Not Detected

CVOCs = Chlorinated VOCs
NE = No Standard Established

-- = Not Applicable

Notes:

NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.

NR 140 PALs - 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:

* = Laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) is outside acceptance limits.

B = Compound was found in the blank and sample.

F1 = MS and/or MSD recovery exceeds control limits.

F2 = MS/MSD RPD exceeds control limits.

J = Results reported between the Method Detection Limit (MDL) and LOQ are less certain than results at or above the LOQ.

J1 = Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value.

J2 = Reported value was between the limit of detection and the limit of quantitation.

(1) Hexachlorobutadiene analysis - The RPD exceeded the acceptance limit.

(2) 1,2-Dichloroethane, 1,2-Dichloropropane, Naphthalene = Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) exceeds the control limits.

(3) VOCs analysis - Sample received with improper preservation or temperature.

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**Table 5. Water Level Summary
Pilgrim Cleaners (High Point Center) / SCS Engineers Project #25211372.21**

Raw Data	Depth of Water in feet below top of well casing							
	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW2P
Measurement Date								
November 5, 2010	56.54	60.14	62.71	--	--	--	--	--
November 22, 2010	56.94	61.08	65.66	--	--	--	--	--
June 4, 2012	67.8	64.82	74.21	--	--	--	--	--
July 2, 2012	NM	NM	NM	63.94	111.22	107.67	72.13	101.86
August 1, 2012	67.55	Dry	73.31	63.81	111.68	109.02	74.77	102.19
April 5, 2013	68.77	60.10	77.15	66.67	114.76	112.39	79.32	105.92
April 15, 2013	NM	NM	NM	66.40	114.66	112.33	NM	NM
June 19-20, 2023	60.23	Dry	NM	58.96	108.22	106.32	72.20	98.83

Well Number	Shallow wells (Perched?)				Deep Wells (Water Table?)			
	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW2P
Ground Water Elevation in feet above mean sea level (amsl)								
Top of Casing Elevation (feet amsl)	1,069.25	1,068.92	1,081.08	1,079.39	1,068.61	1,068.57	1,068.30	1,069.07
Screen Length (ft)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	5.00
Total Depth (ft from top of casing)	69.80	64.80	76.80	74.80	118.70	118.20	79.60	119.80
Top of Well Screen Elevation (ft)	1,014.45	1,019.12	1,019.28	1,019.59	964.91	965.37	1,003.70	954.27
Measurement Date								
November 5, 2010	1,012.71	1,008.78	1,018.37	--	--	--	--	--
November 22, 2010	1,012.31	1,007.84	1,015.42	--	--	--	--	--
June 4, 2012	1,001.45	1,004.10	1,006.87	--	--	--	--	--
July 2, 2012	NM	NM	NM	1,015.45	957.39	960.90	996.17	967.21
August 1, 2012	1,001.70	Dry	1,007.77	1,015.58	956.93	959.55	993.53	966.88
April 5, 2013	1,000.48	1,008.82	1,003.93	1,012.72	953.85	956.18	988.98	963.15
April 15, 2013	NM	NM	NM	1,012.99	953.95	956.24	NM	NM
June 19-20, 2023	1,009.02	Dry	NM	1,020.43	960.39	962.25	996.10	970.24
Bottom of Well Elevation (ft)	999.45	1,004.12	1,004.28	1,004.59	949.91	950.37	988.70	949.27

Abbreviations:

-- = not applicable NM = not measured

Note:

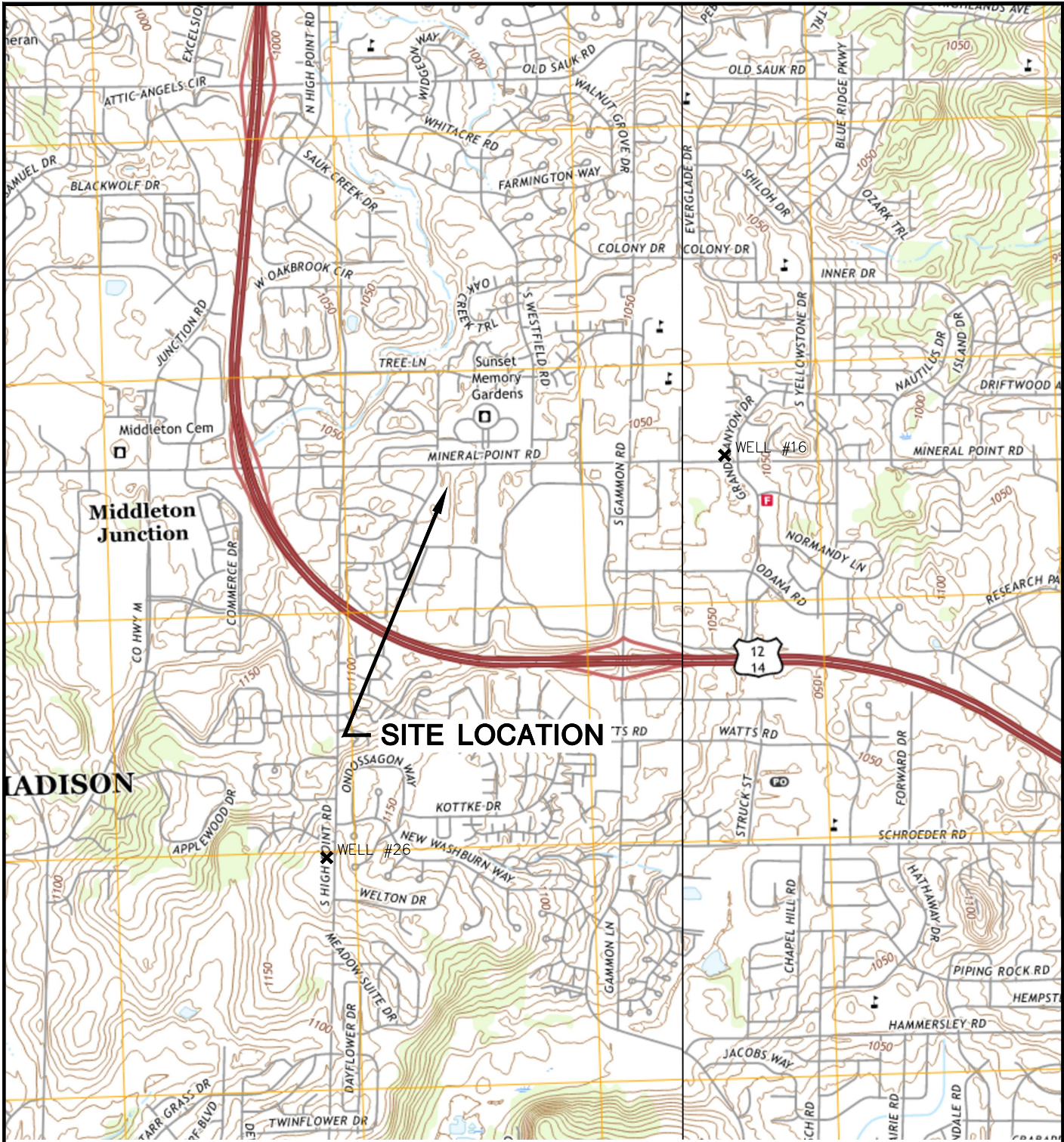
1) Monitoring well MW-3 could not be accessed in June 2023 as it was found to be paved over.

Created by:	<u> TJK </u>	Date:	<u> 11/11/2010 </u>
Last revision by:	<u> REL </u>	Date:	<u> 6/22/2023 </u>
Checked by:	<u> AJR </u>	Date:	<u> 6/23/2023 </u>
Proj Mgr QA/QC:	<u> REL </u>	Date:	<u> 7/7/2023 </u>

I:\3722\Tables-General\[Table 5_Water Level Summary.xls]levels

Figures

- 1 Site Location Map
- 2 Site Area
- 3 Detailed Site Plan
- 4 Water Table Contour Map – Shallow
- 5 Water Table Contour Map – Deep
- 6 Groundwater Results – Shallow
- 7 Groundwater Results – Deep



MIDDLETON
 WISCONSIN-DANE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 SE/4 CROSS PLAINS 15' QUADRANGLE
 2022
 SCALE: 1" = 2,000'

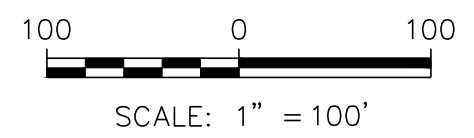


CLIENT INLAND COMMERCIAL PROPERTY MANAGEMENT, INC. 2901 BUTTERFIELD ROAD OAK BROOK, ILLINOIS 60523	SITE PILGRIM CLEANERS, INC. 7475 MINERAL POINT ROAD MADISON, WISCONSIN	SITE LOCATION MAP	
PROJECT NO. 3722	DRAWN BY: KP/KH	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	
DRAWN: 12/16/2008	CHECKED BY: TK		FIGURE
REVISED: 01/19/2023	APPROVED BY: REL, 1/19/2023		1



- LEGEND**
- PROPERTY LINE
 - E — ELECTRIC
 - G — GAS MAIN
 - SA — SANITARY SEWER
 - ST — STORM SEWER
 - W — WATER MAIN
 - MONITORING WELL (APPROXIMATE LOCATION)

- NOTES:**
1. JUNE 19, 2022 AERIAL PHOTOGRAPH SAVED FROM GOOGLE EARTH.
 2. UTILITY LOCATIONS ARE APPROXIMATE AND ARE BASED ON HIGH POINT CENTRE ALTA/ACSM LANT TITLE SURVEY BY D'ONOFRIO KOTTKE AND ASSOCIATES DATED 02/14/2014 AND A CITY OF MADISON GIS/MAPPING DOWNLOAD FROM 07/02/2019.



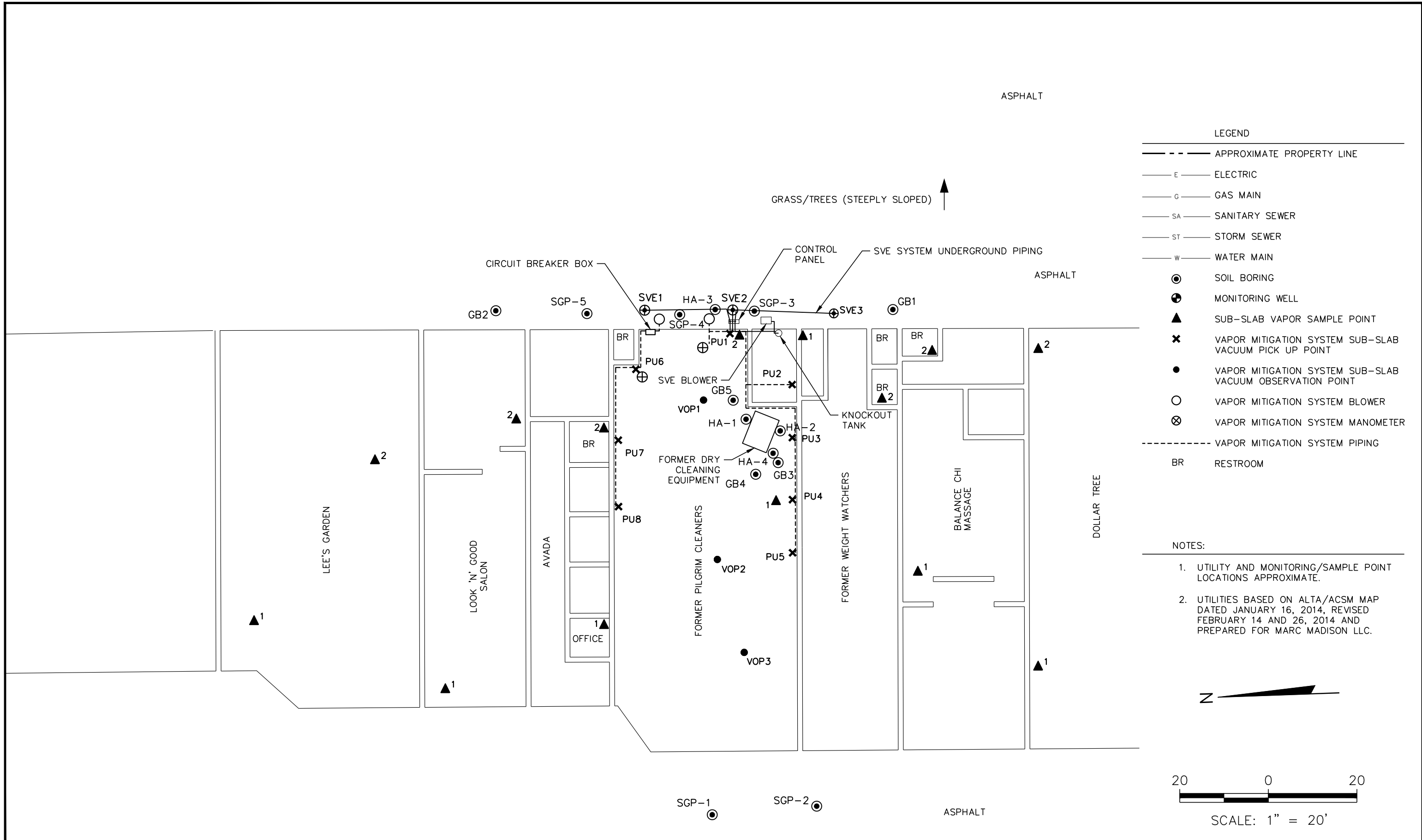
PROJECT NO.	25211372.2	DRAWN BY:	AHB
DRAWN:	10/16/2013	CHECKED BY:	TJK
REVISED:	01/12/2024	APPROVED BY:	REL 02/07/2024

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

CLIENT	IRC RETAIL CENTERS, LLC 814 COMMERCE DRIVE, SUITE 300 OAK BROOK, IL 60523
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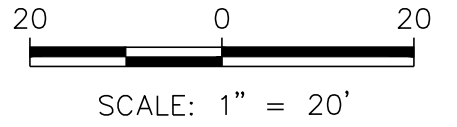
SITE	PILGRIM CLEANERS 7475 MINERAL POINT ROAD MADISON, WISCONSIN
------	---

SITE AREA	FIGURE
	2

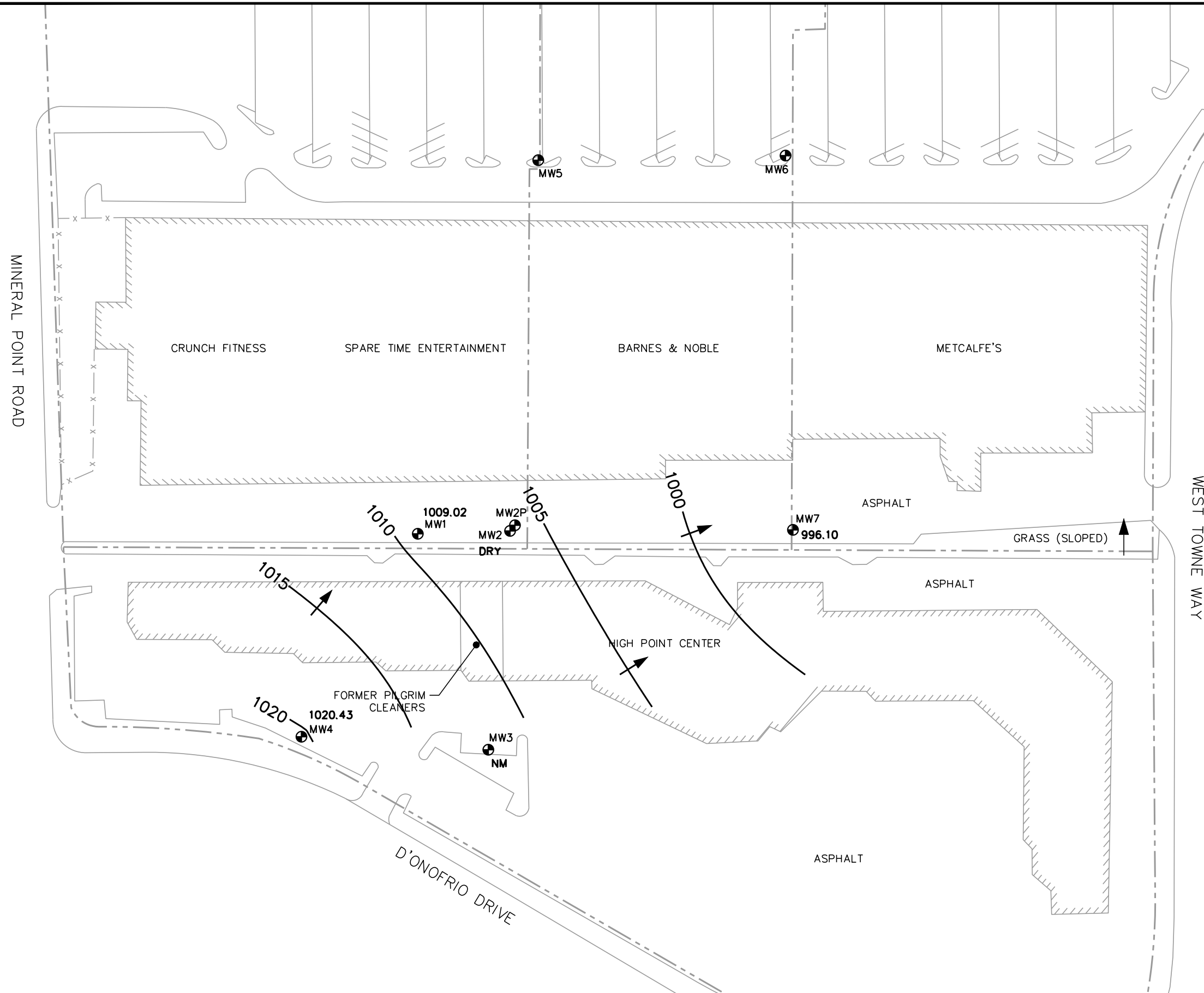


- LEGEND**
- APPROXIMATE PROPERTY LINE
 - E — ELECTRIC
 - G — GAS MAIN
 - SA — SANITARY SEWER
 - ST — STORM SEWER
 - W — WATER MAIN
 - ⊙ SOIL BORING
 - ⊕ MONITORING WELL
 - ▲ SUB-SLAB VAPOR SAMPLE POINT
 - ✕ VAPOR MITIGATION SYSTEM SUB-SLAB VACUUM PICK UP POINT
 - VAPOR MITIGATION SYSTEM SUB-SLAB VACUUM OBSERVATION POINT
 - VAPOR MITIGATION SYSTEM BLOWER
 - ⊗ VAPOR MITIGATION SYSTEM MANOMETER
 - VAPOR MITIGATION SYSTEM PIPING
 - BR RESTROOM

- NOTES:**
1. UTILITY AND MONITORING/SAMPLE POINT LOCATIONS APPROXIMATE.
 2. UTILITIES BASED ON ALTA/ACSM MAP DATED JANUARY 16, 2014, REVISED FEBRUARY 14 AND 26, 2014 AND PREPARED FOR MARC MADISON LLC.

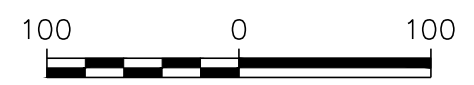


PROJECT NO. 25211372.21	DRAWN BY: AHB	 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT IRC RETAIL CENTERS, LLC 814 COMMERCE DRIVE, SUITE 300 OAK BROOK, IL 60523	SITE PILGRIM CLEANERS 7475 MINERAL POINT ROAD MADISON, WISCONSIN	DETAILED SITE PLAN	FIGURE
DRAWN: 10/16/2013	CHECKED BY: REL					3
REVISED: 01/12/2024	APPROVED BY: REL 02/07/2024					



- LEGEND**
- APPROXIMATE PROPERTY LINE
 - ⊕ MONITORING WELL
 - 988.98** WATER TABLE ELEVATION MEASURED ON 06/19/2023
 - SHALLOW WATER TABLE CONTOUR
 - ➔ APPROXIMATE SHALLOW GROUNDWATER FLOW DIRECTION
 - NM** NOT MEASURED, SEE NOTE 1
 - DRY** WELL WAS DRY

- NOTES:**
1. MW3 WAS PAVED OVER AND WAS NOT ACCESSIBLE FOR MEASUREMENT.
 2. MONITORING WELL LOCATIONS ARE APPROXIMATE.



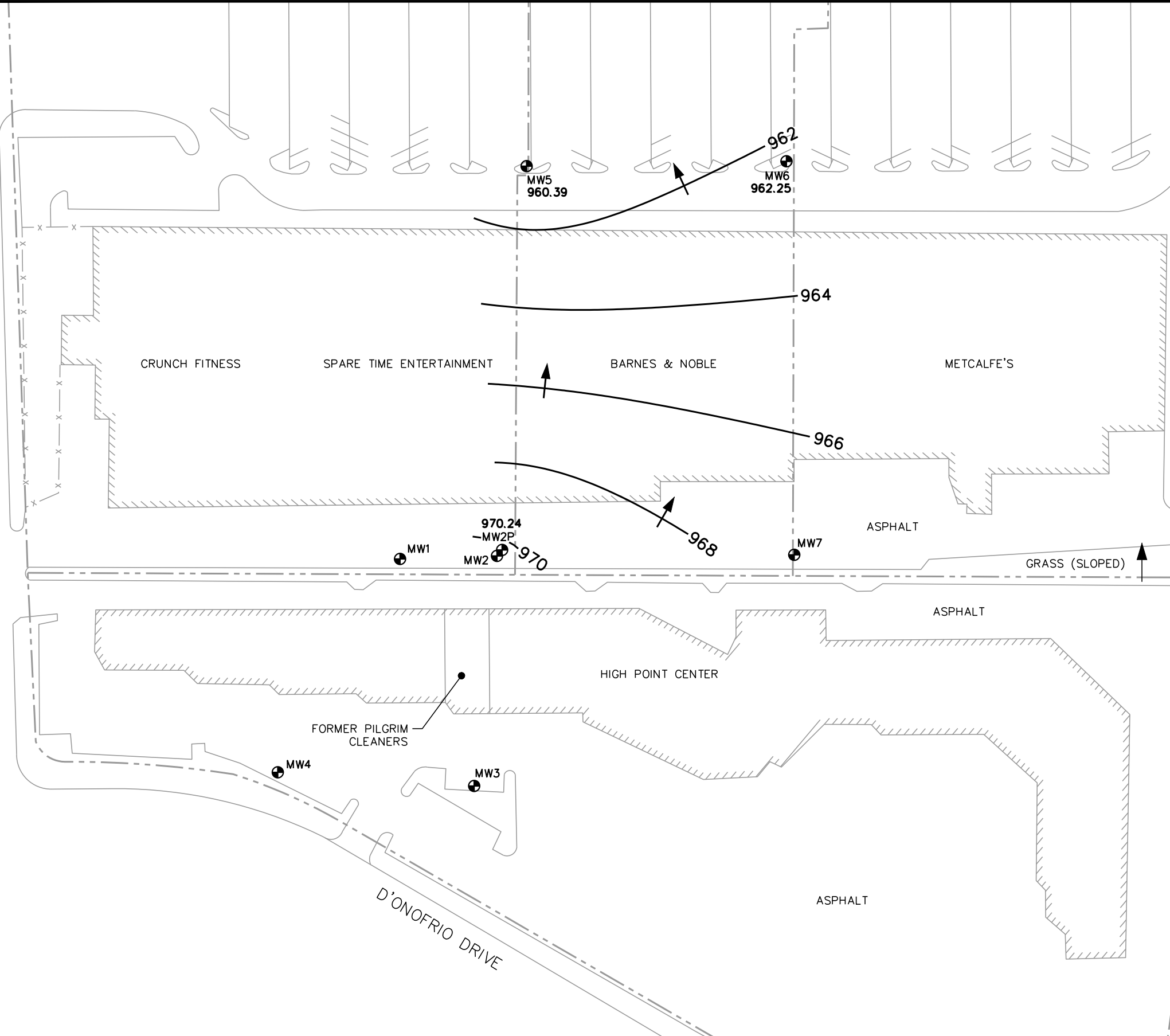
SCALE: 1" = 100'

I:\3722\Drawings-General\JUNE 2023\WTBL.dwg, 1/15/2024 9:37:22 AM

PROJECT NO.	25211372.2	DRAWN BY:	KP	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	IRC RETAIL CENTERS, LLC 814 COMMERCE DRIVE, SUITE 300 OAK BROOK, IL 60523	SITE PILGRIM CLEANERS 7475 MINERAL POINT ROAD MADISON, WISCONSIN	WATER TABLE CONTOUR MAP--SHALLOW JUNE 19, 2023	FIGURE		
DRAWN:	09/05/2023	CHECKED BY:	REL								
REVISED:	09/05/2023	APPROVED BY:	REL 02/07/2024		ENGINEER						4

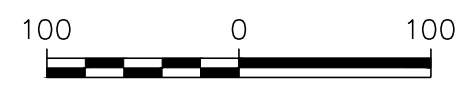
MINERAL POINT ROAD

WEST TOWNE WAY



- LEGEND**
- APPROXIMATE PROPERTY LINE
 - MONITORING WELL
 - 963.11** WATER TABLE ELEVATION MEASURED ON 06/19/2023
 - DEEP WATER TABLE CONTOUR
 - APPROXIMATE DEEP GROUNDWATER FLOW DIRECTION

- NOTES:**
1. MONITORING WELL LOCATIONS ARE APPROXIMATE.



SCALE: 1" = 100'

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PROJECT NO.	25211372.2	DRAWN BY:	KP
DRAWN:	09/05/2023	CHECKED BY:	REL
REVISED:	09/05/2023	APPROVED BY:	REL 02/07/2024

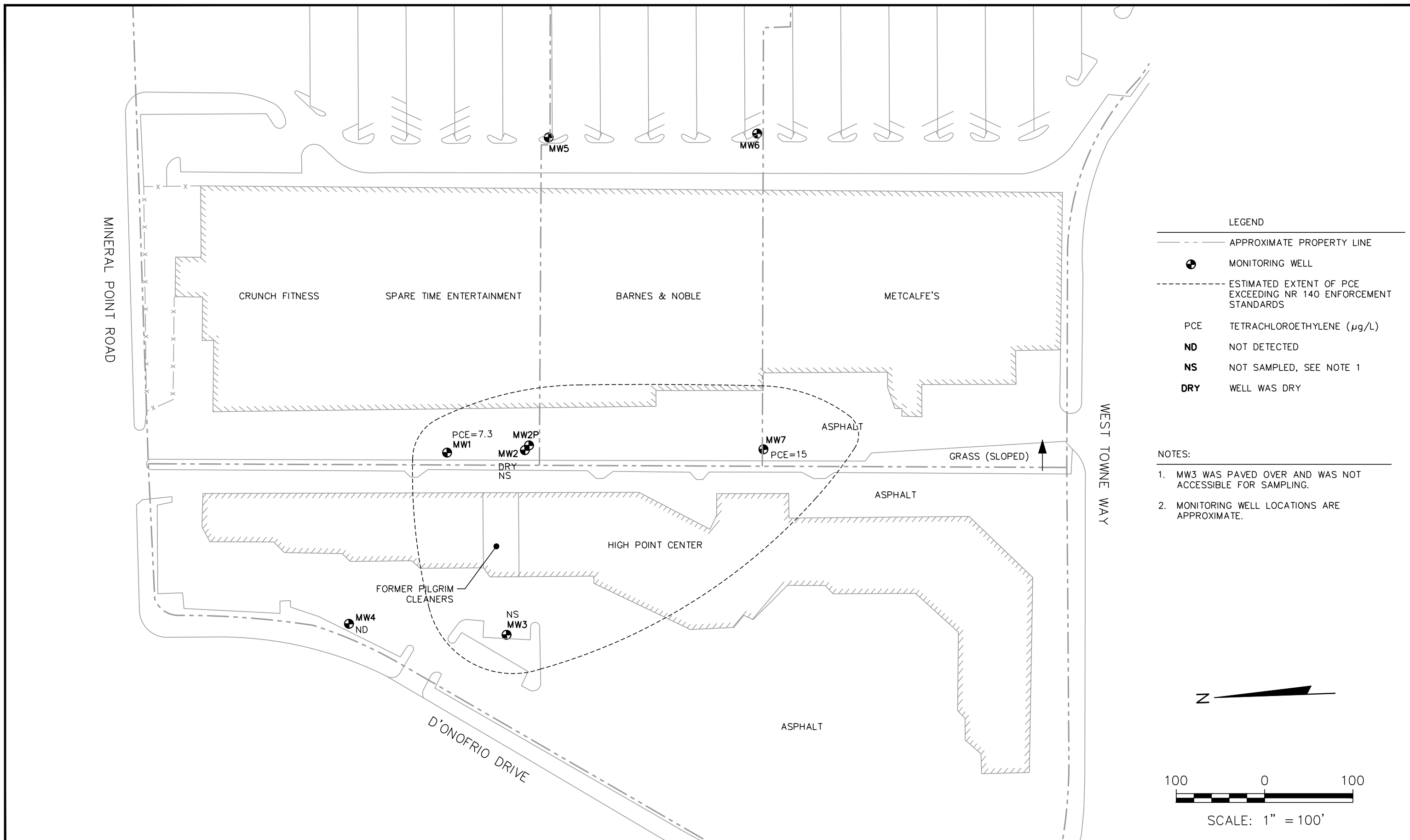
SCS ENGINEERS
 2830 DAIRY DRIVE MADISON, WI 53718-6751
 PHONE: (608) 224-2830

CLIENT
 IRC RETAIL CENTERS, LLC
 814 COMMERCE DRIVE, SUITE 300
 OAK BROOK, IL 60523

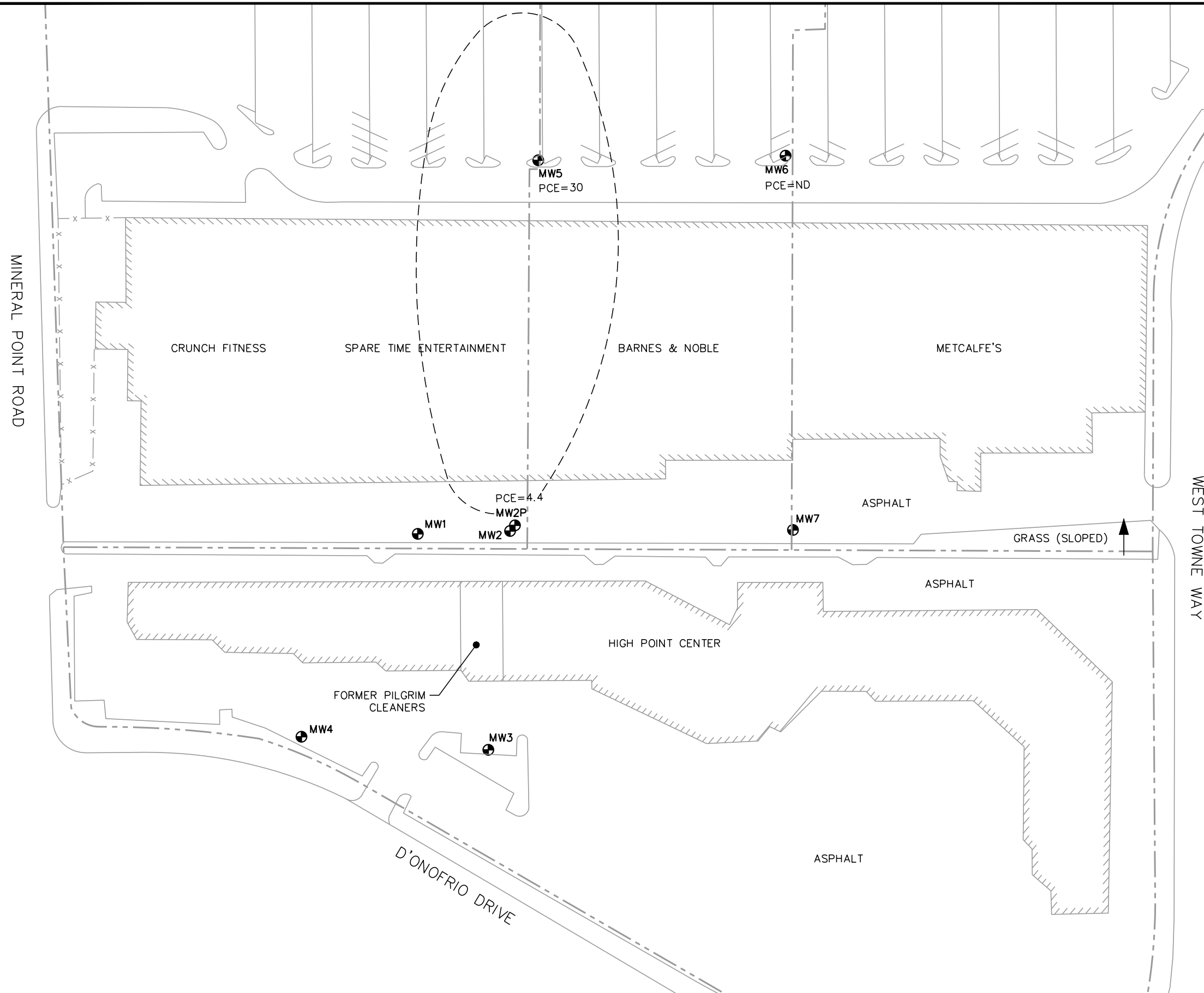
SITE
 PILGRIM CLEANERS
 7475 MINERAL POINT ROAD
 MADISON, WISCONSIN

WATER TABLE CONTOUR MAP-DEEP
 JUNE 19, 2023

FIGURE
 5



PROJECT NO.	25211372.2	DRAWN BY:	AHB	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT IRC RETAIL CENTERS, LLC 814 COMMERCE DRIVE, SUITE 300 OAK BROOK, IL 60523	SITE PILGRIM CLEANERS 7475 MINERAL POINT ROAD MADISON, WISCONSIN	GROUNDWATER RESULTS-SHALLOW JUNE 2023	FIGURE
DRAWN:	06/24/2014	CHECKED BY:	REL					6
REVISED:	01/12/2024	APPROVED BY:	REL 02/07/2024					

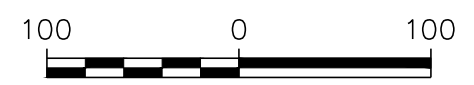


LEGEND

	PROPERTY LINE
	MONITORING WELL
	ESTIMATED EXTENT OF PCE EXCEEDING NR 140 ENFORCEMENT STANDARDS
PCE	TETRACHLOROETHYLENE ($\mu\text{g/L}$)
ND	NOT DETECTED

NOTES:

- MONITORING WELL LOCATIONS ARE APPROXIMATE.



SCALE: 1" = 100'

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PROJECT NO.	25211372.2	DRAWN BY:	AHB
DRAWN:	06/24/2014	CHECKED BY:	REL
REVISED:	01/12/2024	APPROVED BY:	REL 02/07/2024

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

CLIENT	IRC RETAIL CENTERS, LLC 814 COMMERCE DRIVE, SUITE 300 OAK BROOK, IL 60523
--------	---

SITE	PILGRIM CLEANERS 7475 MINERAL POINT ROAD MADISON, WISCONSIN
------	---

GROUNDWATER RESULTS MAP-DEEP JUNE 2023

FIGURE 7

Attachment A
Laboratory Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Robert Langdon
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Generated 7/6/2023 12:39:41 PM

JOB DESCRIPTION

Pilgrim Cleaners - 25211372.21

JOB NUMBER

500-235573-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660



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Case Narrative

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Job ID: 500-235573-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-235573-1

Receipt

The samples were received on 6/21/2023 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

GC/MS VOA

Methods 8260B, 8260D: Methylene chloride was detected in the following items: MW5 (500-235573-2). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 500-720115: Tetrachloroethene, 1,1,1,2-Tetrachloroethane and Chlorodibromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 500-720115 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Detection Summary

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW6

Lab Sample ID: 500-235573-1

No Detections.

Client Sample ID: MW5

Lab Sample ID: 500-235573-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.4	J B	5.0	1.6	ug/L	1		8260B	Total/NA
Tetrachloroethene	30	*	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW4

Lab Sample ID: 500-235573-3

No Detections.

Client Sample ID: MW7

Lab Sample ID: 500-235573-4

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

Client Sample ID: MW1

Lab Sample ID: 500-235573-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.3	*	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW2P

Lab Sample ID: 500-235573-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	5.0		1.0	0.39	ug/L	1		8260B	Total/NA
Tetrachloroethene	4.2	*	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW2P DUP

Lab Sample ID: 500-235573-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	3.9		1.0	0.39	ug/L	1		8260B	Total/NA
Tetrachloroethene	4.4	*	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: HCL TB

Lab Sample ID: 500-235573-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-235573-1	MW6	Water	06/19/23 13:00	06/21/23 10:05
500-235573-2	MW5	Water	06/19/23 14:00	06/21/23 10:05
500-235573-3	MW4	Water	06/20/23 10:35	06/21/23 10:05
500-235573-4	MW7	Water	06/19/23 16:15	06/21/23 10:05
500-235573-5	MW1	Water	06/19/23 10:35	06/21/23 10:05
500-235573-6	MW2P	Water	06/20/23 11:45	06/21/23 10:05
500-235573-7	MW2P DUP	Water	06/20/23 11:45	06/21/23 10:05
500-235573-8	HCL TB	Water	06/19/23 00:00	06/21/23 10:05

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Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW6
Date Collected: 06/19/23 13:00
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/23/23 13:59	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/23/23 13:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/23/23 13:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/23/23 13:59	1
Bromoform	<0.48		1.0	0.48	ug/L			06/23/23 13:59	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/23/23 13:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/23/23 13:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/23/23 13:59	1
Chloroform	<0.37		2.0	0.37	ug/L			06/23/23 13:59	1
Chloromethane	<0.32		5.0	0.32	ug/L			06/23/23 13:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/23/23 13:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/23/23 13:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/23/23 13:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/23/23 13:59	1
Dibromochloromethane	<0.49 *		1.0	0.49	ug/L			06/23/23 13:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/23/23 13:59	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/23/23 13:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/23/23 13:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/23/23 13:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/23/23 13:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/23/23 13:59	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/23/23 13:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/23/23 13:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/23/23 13:59	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/23/23 13:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/23/23 13:59	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/23/23 13:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/23/23 13:59	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/23/23 13:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/23/23 13:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/23/23 13:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/23/23 13:59	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/23/23 13:59	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 13:59	1
Styrene	<0.39		1.0	0.39	ug/L			06/23/23 13:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 13:59	1
1,1,1,2-Tetrachloroethane	<0.46 *		1.0	0.46	ug/L			06/23/23 13:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/23/23 13:59	1
Tetrachloroethene	<0.37 *		1.0	0.37	ug/L			06/23/23 13:59	1
Toluene	<0.15		0.50	0.15	ug/L			06/23/23 13:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/23/23 13:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/23/23 13:59	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW6
Date Collected: 06/19/23 13:00
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 13:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 13:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 13:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 13:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 13:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 13:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 13:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 13:59	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 13:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 13:59	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124		06/23/23 13:59	1
Dibromofluoromethane (Surr)	111		75 - 120		06/23/23 13:59	1
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		06/23/23 13:59	1
Toluene-d8 (Surr)	98		75 - 120		06/23/23 13:59	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW5
Date Collected: 06/19/23 14:00
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/23/23 14:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/23/23 14:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/23/23 14:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/23/23 14:23	1
Bromoform	<0.48		1.0	0.48	ug/L			06/23/23 14:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/23/23 14:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/23/23 14:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/23/23 14:23	1
Chloroform	<0.37		2.0	0.37	ug/L			06/23/23 14:23	1
Chloromethane	<0.32		5.0	0.32	ug/L			06/23/23 14:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/23/23 14:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/23/23 14:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/23/23 14:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/23/23 14:23	1
Dibromochloromethane	<0.49 *		1.0	0.49	ug/L			06/23/23 14:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/23/23 14:23	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/23/23 14:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/23/23 14:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/23/23 14:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/23/23 14:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/23/23 14:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/23/23 14:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/23/23 14:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/23/23 14:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/23/23 14:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/23/23 14:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/23/23 14:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/23/23 14:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/23/23 14:23	1
Methylene Chloride	4.4	J B	5.0	1.6	ug/L			06/23/23 14:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/23/23 14:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/23/23 14:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/23/23 14:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 14:23	1
Styrene	<0.39		1.0	0.39	ug/L			06/23/23 14:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 14:23	1
1,1,1,2-Tetrachloroethane	<0.46 *		1.0	0.46	ug/L			06/23/23 14:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/23/23 14:23	1
Tetrachloroethene	30	*	1.0	0.37	ug/L			06/23/23 14:23	1
Toluene	<0.15		0.50	0.15	ug/L			06/23/23 14:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/23/23 14:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/23/23 14:23	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW5

Lab Sample ID: 500-235573-2

Date Collected: 06/19/23 14:00

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 14:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 14:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 14:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 14:23	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 14:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 14:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 14:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 14:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 14:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 14:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		72 - 124		06/23/23 14:23	1
Dibromofluoromethane (Surr)	114		75 - 120		06/23/23 14:23	1
1,2-Dichloroethane-d4 (Surr)	113		75 - 126		06/23/23 14:23	1
Toluene-d8 (Surr)	96		75 - 120		06/23/23 14:23	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW4
Date Collected: 06/20/23 10:35
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/23/23 14:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/23/23 14:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/23/23 14:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/23/23 14:48	1
Bromoform	<0.48		1.0	0.48	ug/L			06/23/23 14:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/23/23 14:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/23/23 14:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/23/23 14:48	1
Chloroform	<0.37		2.0	0.37	ug/L			06/23/23 14:48	1
Chloromethane	<0.32		5.0	0.32	ug/L			06/23/23 14:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/23/23 14:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/23/23 14:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/23/23 14:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/23/23 14:48	1
Dibromochloromethane	<0.49 *		1.0	0.49	ug/L			06/23/23 14:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/23/23 14:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/23/23 14:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/23/23 14:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/23/23 14:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/23/23 14:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/23/23 14:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/23/23 14:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/23/23 14:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/23/23 14:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/23/23 14:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/23/23 14:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/23/23 14:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/23/23 14:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/23/23 14:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/23/23 14:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/23/23 14:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/23/23 14:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/23/23 14:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 14:48	1
Styrene	<0.39		1.0	0.39	ug/L			06/23/23 14:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 14:48	1
1,1,1,2-Tetrachloroethane	<0.46 *		1.0	0.46	ug/L			06/23/23 14:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/23/23 14:48	1
Tetrachloroethene	<0.37 *		1.0	0.37	ug/L			06/23/23 14:48	1
Toluene	<0.15		0.50	0.15	ug/L			06/23/23 14:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/23/23 14:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/23/23 14:48	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW4

Lab Sample ID: 500-235573-3

Date Collected: 06/20/23 10:35

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 14:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 14:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 14:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 14:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 14:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 14:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 14:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 14:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 14:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 14:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		06/23/23 14:48	1
Dibromofluoromethane (Surr)	102		75 - 120		06/23/23 14:48	1
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		06/23/23 14:48	1
Toluene-d8 (Surr)	105		75 - 120		06/23/23 14:48	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW7

Lab Sample ID: 500-235573-4

Date Collected: 06/19/23 16:15

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/23/23 15:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/23/23 15:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/23/23 15:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/23/23 15:13	1
Bromoform	<0.48		1.0	0.48	ug/L			06/23/23 15:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/23/23 15:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/23/23 15:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/23/23 15:13	1
Chloroform	<0.37		2.0	0.37	ug/L			06/23/23 15:13	1
Chloromethane	<0.32		5.0	0.32	ug/L			06/23/23 15:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/23/23 15:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/23/23 15:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/23/23 15:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/23/23 15:13	1
Dibromochloromethane	<0.49 *		1.0	0.49	ug/L			06/23/23 15:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/23/23 15:13	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/23/23 15:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/23/23 15:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/23/23 15:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/23/23 15:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/23/23 15:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/23/23 15:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/23/23 15:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/23/23 15:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/23/23 15:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/23/23 15:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/23/23 15:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/23/23 15:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/23/23 15:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/23/23 15:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/23/23 15:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/23/23 15:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/23/23 15:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 15:13	1
Styrene	<0.39		1.0	0.39	ug/L			06/23/23 15:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 15:13	1
1,1,1,2-Tetrachloroethane	<0.46 *		1.0	0.46	ug/L			06/23/23 15:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/23/23 15:13	1
Tetrachloroethene	15 *		1.0	0.37	ug/L			06/23/23 15:13	1
Toluene	<0.15		0.50	0.15	ug/L			06/23/23 15:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/23/23 15:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/23/23 15:13	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW7

Lab Sample ID: 500-235573-4

Date Collected: 06/19/23 16:15

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 15:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 15:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 15:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 15:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 15:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 15:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 15:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 15:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 15:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 15:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124		06/23/23 15:13	1
Dibromofluoromethane (Surr)	119		75 - 120		06/23/23 15:13	1
1,2-Dichloroethane-d4 (Surr)	118		75 - 126		06/23/23 15:13	1
Toluene-d8 (Surr)	94		75 - 120		06/23/23 15:13	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW1

Lab Sample ID: 500-235573-5

Date Collected: 06/19/23 10:35

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/23/23 15:37	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/23/23 15:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/23/23 15:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/23/23 15:37	1
Bromoform	<0.48		1.0	0.48	ug/L			06/23/23 15:37	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/23/23 15:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/23/23 15:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/23/23 15:37	1
Chloroform	<0.37		2.0	0.37	ug/L			06/23/23 15:37	1
Chloromethane	<0.32		5.0	0.32	ug/L			06/23/23 15:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/23/23 15:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/23/23 15:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/23/23 15:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/23/23 15:37	1
Dibromochloromethane	<0.49 *		1.0	0.49	ug/L			06/23/23 15:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/23/23 15:37	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/23/23 15:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/23/23 15:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/23/23 15:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/23/23 15:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/23/23 15:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/23/23 15:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/23/23 15:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/23/23 15:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/23/23 15:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/23/23 15:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/23/23 15:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/23/23 15:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/23/23 15:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/23/23 15:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/23/23 15:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/23/23 15:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/23/23 15:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 15:37	1
Styrene	<0.39		1.0	0.39	ug/L			06/23/23 15:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 15:37	1
1,1,1,2-Tetrachloroethane	<0.46 *		1.0	0.46	ug/L			06/23/23 15:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/23/23 15:37	1
Tetrachloroethene	7.3 *		1.0	0.37	ug/L			06/23/23 15:37	1
Toluene	<0.15		0.50	0.15	ug/L			06/23/23 15:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/23/23 15:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/23/23 15:37	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW1

Lab Sample ID: 500-235573-5

Date Collected: 06/19/23 10:35

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 15:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 15:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 15:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 15:37	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 15:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 15:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 15:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 15:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 15:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 15:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		72 - 124		06/23/23 15:37	1
Dibromofluoromethane (Surr)	113		75 - 120		06/23/23 15:37	1
1,2-Dichloroethane-d4 (Surr)	112		75 - 126		06/23/23 15:37	1
Toluene-d8 (Surr)	103		75 - 120		06/23/23 15:37	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW2P
Date Collected: 06/20/23 11:45
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 16:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 16:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 16:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 16:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 16:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 16:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 16:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 16:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 16:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 16:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		72 - 124					06/23/23 16:02	1
Dibromofluoromethane (Surr)	114		75 - 120					06/23/23 16:02	1
1,2-Dichloroethane-d4 (Surr)	113		75 - 126					06/23/23 16:02	1
Toluene-d8 (Surr)	99		75 - 120					06/23/23 16:02	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW2P DUP

Lab Sample ID: 500-235573-7

Date Collected: 06/20/23 11:45

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46	F2	1.0	0.46	ug/L			06/23/23 16:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 16:26	1
1,1,1-Trichloroethane	<0.38	F2	1.0	0.38	ug/L			06/23/23 16:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 16:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 16:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 16:26	1
1,2,3-Trichloropropane	<0.41	F1	2.0	0.41	ug/L			06/23/23 16:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 16:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 16:26	1
Vinyl chloride	<0.20	F1	1.0	0.20	ug/L			06/23/23 16:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		72 - 124		06/23/23 16:26	1
Dibromofluoromethane (Surr)	110		75 - 120		06/23/23 16:26	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		06/23/23 16:26	1
Toluene-d8 (Surr)	101		75 - 120		06/23/23 16:26	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: HCL TB

Lab Sample ID: 500-235573-8

Date Collected: 06/19/23 00:00

Matrix: Water

Date Received: 06/21/23 10:05

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 16:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 16:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 16:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 16:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 16:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 16:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 16:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 16:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 16:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 16:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		72 - 124		06/23/23 16:51	1
Dibromofluoromethane (Surr)	117		75 - 120		06/23/23 16:51	1
1,2-Dichloroethane-d4 (Surr)	116		75 - 126		06/23/23 16:51	1
Toluene-d8 (Surr)	95		75 - 120		06/23/23 16:51	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

GC/MS VOA

Analysis Batch: 720115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235573-1	MW6	Total/NA	Water	8260B	
500-235573-2	MW5	Total/NA	Water	8260B	
500-235573-3	MW4	Total/NA	Water	8260B	
500-235573-4	MW7	Total/NA	Water	8260B	
500-235573-5	MW1	Total/NA	Water	8260B	
500-235573-6	MW2P	Total/NA	Water	8260B	
500-235573-7	MW2P DUP	Total/NA	Water	8260B	
500-235573-8	HCL TB	Total/NA	Water	8260B	
MB 500-720115/6	Method Blank	Total/NA	Water	8260B	
LCS 500-720115/4	Lab Control Sample	Total/NA	Water	8260B	
500-235573-7 MS	MW2P DUP	Total/NA	Water	8260B	
500-235573-7 MSD	MW2P DUP	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-235573-1	MW6	102	111	109	98
500-235573-2	MW5	104	114	113	96
500-235573-3	MW4	106	102	103	105
500-235573-4	MW7	107	119	118	94
500-235573-5	MW1	108	113	112	103
500-235573-6	MW2P	107	114	113	99
500-235573-7	MW2P DUP	109	110	108	101
500-235573-7 MS	MW2P DUP	89	94	94	110
500-235573-7 MSD	MW2P DUP	86	91	89	103
500-235573-8	HCL TB	108	117	116	95
LCS 500-720115/4	Lab Control Sample	88	92	86	103
MB 500-720115/6	Method Blank	101	106	105	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Lab Sample ID: MB 500-720115/6
Matrix: Water
Analysis Batch: 720115

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/23/23 10:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/23/23 10:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/23/23 10:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/23/23 10:43	1
Bromoform	<0.48		1.0	0.48	ug/L			06/23/23 10:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/23/23 10:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/23/23 10:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/23/23 10:43	1
Chloroform	<0.37		2.0	0.37	ug/L			06/23/23 10:43	1
Chloromethane	<0.32		5.0	0.32	ug/L			06/23/23 10:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/23/23 10:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/23/23 10:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/23/23 10:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/23/23 10:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/23/23 10:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/23/23 10:43	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/23/23 10:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/23/23 10:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/23/23 10:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/23/23 10:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/23/23 10:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/23/23 10:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/23/23 10:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/23/23 10:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/23/23 10:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/23/23 10:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/23/23 10:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/23/23 10:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/23/23 10:43	1
Methylene Chloride	2.30	J	5.0	1.6	ug/L			06/23/23 10:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/23/23 10:43	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/23/23 10:43	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/23/23 10:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 10:43	1
Styrene	<0.39		1.0	0.39	ug/L			06/23/23 10:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/23/23 10:43	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/23/23 10:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/23/23 10:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/23/23 10:43	1
Toluene	<0.15		0.50	0.15	ug/L			06/23/23 10:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/23/23 10:43	1

QC Sample Results

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Lab Sample ID: MB 500-720115/6
Matrix: Water
Analysis Batch: 720115

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

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/23/23 10:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/23/23 10:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/23/23 10:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/23/23 10:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/23/23 10:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/23/23 10:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/23/23 10:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/23/23 10:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/23/23 10:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/23/23 10:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/23/23 10:43	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/23/23 10:43	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		72 - 124		06/23/23 10:43	1
Dibromofluoromethane (Surr)	106		75 - 120		06/23/23 10:43	1
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		06/23/23 10:43	1
Toluene-d8 (Surr)	99		75 - 120		06/23/23 10:43	1

Lab Sample ID: LCS 500-720115/4
Matrix: Water
Analysis Batch: 720115

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	53.1		ug/L		106	70 - 120
Bromobenzene	50.0	52.1		ug/L		104	70 - 122
Bromochloromethane	50.0	54.4		ug/L		109	65 - 122
Bromodichloromethane	50.0	52.3		ug/L		105	69 - 120
Bromoform	50.0	64.8		ug/L		130	56 - 132
Bromomethane	50.0	30.8		ug/L		62	40 - 152
Carbon tetrachloride	50.0	66.1		ug/L		132	59 - 133
Chlorobenzene	50.0	55.7		ug/L		111	70 - 120
Chloroethane	50.0	32.2		ug/L		64	48 - 136
Chloroform	50.0	48.0		ug/L		96	70 - 120
Chloromethane	50.0	49.3		ug/L		99	56 - 152
2-Chlorotoluene	50.0	47.4		ug/L		95	70 - 125
4-Chlorotoluene	50.0	49.6		ug/L		99	68 - 124
cis-1,2-Dichloroethene	50.0	45.7		ug/L		91	70 - 125
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	64 - 127
Dibromochloromethane	50.0	71.0	*	ug/L		142	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	56 - 123
1,2-Dibromoethane (EDB)	50.0	60.4		ug/L		121	70 - 125
Dibromomethane	50.0	58.1		ug/L		116	70 - 120
1,2-Dichlorobenzene	50.0	52.7		ug/L		105	70 - 125
1,3-Dichlorobenzene	50.0	56.4		ug/L		113	70 - 125
1,4-Dichlorobenzene	50.0	55.2		ug/L		110	70 - 120
Dichlorodifluoromethane	50.0	44.3		ug/L		89	40 - 159
1,1-Dichloroethane	50.0	48.0		ug/L		96	70 - 125

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QC Sample Results

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Lab Sample ID: LCS 500-720115/4

Matrix: Water

Analysis Batch: 720115

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	51.4		ug/L		103	68 - 127
1,1-Dichloroethene	50.0	51.4		ug/L		103	67 - 122
1,2-Dichloropropane	50.0	60.1		ug/L		120	67 - 130
1,3-Dichloropropane	50.0	54.4		ug/L		109	62 - 136
2,2-Dichloropropane	50.0	43.5		ug/L		87	58 - 139
1,1-Dichloropropene	50.0	47.9		ug/L		96	70 - 121
Ethylbenzene	50.0	48.3		ug/L		97	70 - 123
Hexachlorobutadiene	50.0	65.6		ug/L		131	51 - 150
Isopropylbenzene	50.0	45.6		ug/L		91	70 - 126
Methylene Chloride	50.0	49.7		ug/L		99	69 - 125
Methyl tert-butyl ether	50.0	38.6		ug/L		77	55 - 123
Naphthalene	50.0	40.6		ug/L		81	53 - 144
n-Butylbenzene	50.0	44.3		ug/L		89	68 - 125
N-Propylbenzene	50.0	48.2		ug/L		96	69 - 127
p-Isopropyltoluene	50.0	52.2		ug/L		104	70 - 125
sec-Butylbenzene	50.0	49.1		ug/L		98	70 - 123
Styrene	50.0	52.4		ug/L		105	70 - 120
tert-Butylbenzene	50.0	48.6		ug/L		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	63.4	*	ug/L		127	70 - 125
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	62 - 140
Tetrachloroethene	50.0	68.4	*	ug/L		137	70 - 128
Toluene	50.0	56.5		ug/L		113	70 - 125
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 125
trans-1,3-Dichloropropene	50.0	53.4		ug/L		107	62 - 128
1,2,3-Trichlorobenzene	50.0	58.3		ug/L		117	51 - 145
1,2,4-Trichlorobenzene	50.0	46.7		ug/L		93	57 - 137
1,1,1-Trichloroethane	50.0	57.3		ug/L		115	70 - 125
1,1,2-Trichloroethane	50.0	61.6		ug/L		123	71 - 130
Trichloroethene	50.0	60.1		ug/L		120	70 - 125
Trichlorofluoromethane	50.0	47.7		ug/L		95	55 - 128
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	50 - 133
1,2,4-Trimethylbenzene	50.0	49.7		ug/L		99	70 - 123
1,3,5-Trimethylbenzene	50.0	50.2		ug/L		100	70 - 123
Vinyl chloride	50.0	37.0		ug/L		74	64 - 126
Xylenes, Total	100	102		ug/L		102	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		72 - 124
Dibromofluoromethane (Surr)	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
Toluene-d8 (Surr)	103		75 - 120

Lab Sample ID: 500-235573-7 MS

Matrix: Water

Analysis Batch: 720115

Client Sample ID: MW2P DUP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.15		50.0	38.8		ug/L		78	70 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Lab Sample ID: 500-235573-7 MS

Client Sample ID: MW2P DUP

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 720115

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromobenzene	<0.36		50.0	38.7		ug/L		77	70 - 122
Bromochloromethane	<0.43		50.0	41.4		ug/L		83	65 - 122
Bromodichloromethane	<0.37		50.0	40.8		ug/L		82	69 - 120
Bromoform	<0.48		50.0	49.5		ug/L		99	56 - 132
Bromomethane	<0.80	F2	50.0	23.1		ug/L		46	40 - 152
Carbon tetrachloride	<0.38	F2	50.0	44.5		ug/L		89	59 - 133
Chlorobenzene	<0.39		50.0	40.8		ug/L		82	70 - 120
Chloroethane	<0.51	F1	50.0	23.5	F1	ug/L		47	48 - 136
Chloroform	<0.37		50.0	36.4		ug/L		73	70 - 120
Chloromethane	<0.32	F2	50.0	40.2		ug/L		80	56 - 152
2-Chlorotoluene	<0.31		50.0	35.6		ug/L		71	70 - 125
4-Chlorotoluene	<0.35		50.0	36.9		ug/L		74	68 - 124
cis-1,2-Dichloroethene	<0.41	F1	50.0	32.2	F1	ug/L		64	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	40.2		ug/L		80	64 - 127
Dibromochloromethane	<0.49	* F1	50.0	58.9		ug/L		118	68 - 125
1,2-Dibromo-3-Chloropropane	<2.0	F2	50.0	33.2		ug/L		66	56 - 123
1,2-Dibromoethane (EDB)	<0.39		50.0	49.7		ug/L		99	70 - 125
Dibromomethane	<0.27		50.0	44.8		ug/L		90	70 - 120
1,2-Dichlorobenzene	<0.33		50.0	40.4		ug/L		81	70 - 125
1,3-Dichlorobenzene	<0.40		50.0	41.9		ug/L		84	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	40.4		ug/L		81	70 - 120
Dichlorodifluoromethane	<0.67		50.0	34.4		ug/L		69	40 - 159
1,1-Dichloroethane	<0.41		50.0	36.3		ug/L		73	70 - 125
1,2-Dichloroethane	3.9		50.0	43.3		ug/L		79	68 - 127
1,1-Dichloroethene	<0.39	F2	50.0	35.4		ug/L		71	67 - 122
1,2-Dichloropropane	<0.43		50.0	47.5		ug/L		95	67 - 130
1,3-Dichloropropane	<0.36		50.0	44.8		ug/L		90	62 - 136
2,2-Dichloropropane	<0.44	F1 F2	50.0	28.4	F1	ug/L		57	58 - 139
1,1-Dichloropropene	<0.30	F1	50.0	34.7	F1	ug/L		69	70 - 121
Ethylbenzene	<0.18		50.0	34.8		ug/L		70	70 - 123
Hexachlorobutadiene	<0.45		50.0	46.7		ug/L		93	51 - 150
Isopropylbenzene	<0.39	F1	50.0	31.3	F1	ug/L		63	70 - 126
Methylene Chloride	<1.6	F2	50.0	37.8		ug/L		76	69 - 125
Methyl tert-butyl ether	<0.39	F1 F2	50.0	26.5	F1	ug/L		53	55 - 123
Naphthalene	<0.34	F1 F2	50.0	24.8	F1	ug/L		50	53 - 144
n-Butylbenzene	<0.39	F1	50.0	29.8	F1	ug/L		60	68 - 125
N-Propylbenzene	<0.41		50.0	34.3		ug/L		69	69 - 127
p-Isopropyltoluene	<0.36		50.0	35.2		ug/L		70	70 - 125
sec-Butylbenzene	<0.40	F1	50.0	34.6	F1	ug/L		69	70 - 123
Styrene	<0.39		50.0	37.2		ug/L		74	70 - 120
tert-Butylbenzene	<0.40	F1	50.0	34.3	F1	ug/L		69	70 - 121
1,1,1,2-Tetrachloroethane	<0.46	*	50.0	50.1		ug/L		100	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	43.0		ug/L		86	62 - 140
Tetrachloroethene	4.4	*	50.0	56.2		ug/L		104	70 - 128
Toluene	<0.15		50.0	45.5		ug/L		91	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	37.1		ug/L		74	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	41.2		ug/L		82	62 - 128
1,2,3-Trichlorobenzene	<0.46	F2	50.0	38.7		ug/L		77	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	30.1		ug/L		60	57 - 137

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QC Sample Results

Client: SCS Engineers
 Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Lab Sample ID: 500-235573-7 MS
Matrix: Water
Analysis Batch: 720115

Client Sample ID: MW2P DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.38	F2	50.0	38.0		ug/L		76	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	53.3		ug/L		107	71 - 130
Trichloroethene	<0.16		50.0	42.1		ug/L		84	70 - 125
Trichlorofluoromethane	<0.43		50.0	37.8		ug/L		76	55 - 128
1,2,3-Trichloropropane	<0.41	F1	50.0	<0.41	F1	ug/L		0	50 - 133
1,2,4-Trimethylbenzene	<0.36		50.0	35.7		ug/L		71	70 - 123
1,3,5-Trimethylbenzene	<0.25		50.0	35.4		ug/L		71	70 - 123
Vinyl chloride	<0.20	F1	50.0	29.5	F1	ug/L		59	64 - 126
Xylenes, Total	<0.22		100	71.8		ug/L		72	70 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	89		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
1,2-Dichloroethane-d4 (Surr)	94		75 - 126
Toluene-d8 (Surr)	110		75 - 120

Lab Sample ID: 500-235573-7 MSD
Matrix: Water
Analysis Batch: 720115

Client Sample ID: MW2P DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.15		50.0	44.1		ug/L		88	70 - 120	13	20
Bromobenzene	<0.36		50.0	43.8		ug/L		88	70 - 122	12	20
Bromochloromethane	<0.43		50.0	48.6		ug/L		97	65 - 122	16	20
Bromodichloromethane	<0.37		50.0	46.8		ug/L		94	69 - 120	14	20
Bromoform	<0.48		50.0	54.2		ug/L		108	56 - 132	9	20
Bromomethane	<0.80	F2	50.0	28.6	F2	ug/L		57	40 - 152	21	20
Carbon tetrachloride	<0.38	F2	50.0	55.1	F2	ug/L		110	59 - 133	21	20
Chlorobenzene	<0.39		50.0	47.1		ug/L		94	70 - 120	14	20
Chloroethane	<0.51	F1	50.0	28.4		ug/L		57	48 - 136	19	20
Chloroform	<0.37		50.0	42.5		ug/L		85	70 - 120	15	20
Chloromethane	<0.32	F2	50.0	50.5	F2	ug/L		101	56 - 152	23	20
2-Chlorotoluene	<0.31		50.0	38.9		ug/L		78	70 - 125	9	20
4-Chlorotoluene	<0.35		50.0	40.2		ug/L		80	68 - 124	9	20
cis-1,2-Dichloroethene	<0.41	F1	50.0	39.5		ug/L		79	70 - 125	20	20
cis-1,3-Dichloropropene	<0.42		50.0	44.1		ug/L		88	64 - 127	9	20
Dibromochloromethane	<0.49	* F1	50.0	63.0	F1	ug/L		126	68 - 125	7	20
1,2-Dibromo-3-Chloropropane	<2.0	F2	50.0	42.5	F2	ug/L		85	56 - 123	25	20
1,2-Dibromoethane (EDB)	<0.39		50.0	52.9		ug/L		106	70 - 125	6	20
Dibromomethane	<0.27		50.0	49.6		ug/L		99	70 - 120	10	20
1,2-Dichlorobenzene	<0.33		50.0	44.5		ug/L		89	70 - 125	10	20
1,3-Dichlorobenzene	<0.40		50.0	46.1		ug/L		92	70 - 125	10	20
1,4-Dichlorobenzene	<0.36		50.0	46.7		ug/L		93	70 - 120	14	20
Dichlorodifluoromethane	<0.67		50.0	39.2		ug/L		78	40 - 159	13	20
1,1-Dichloroethane	<0.41		50.0	42.5		ug/L		85	70 - 125	16	20
1,2-Dichloroethane	3.9		50.0	47.2		ug/L		86	68 - 127	9	20
1,1-Dichloroethene	<0.39	F2	50.0	43.4	F2	ug/L		87	67 - 122	21	20
1,2-Dichloropropane	<0.43		50.0	54.5		ug/L		109	67 - 130	14	20

Eurofins Chicago

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QC Sample Results

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

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

Lab Sample ID: 500-235573-7 MSD

Client Sample ID: MW2P DUP

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 720115

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,3-Dichloropropane	<0.36		50.0	49.1		ug/L		98	62 - 136	9	20
2,2-Dichloropropane	<0.44	F1 F2	50.0	35.1	F2	ug/L		70	58 - 139	21	20
1,1-Dichloropropene	<0.30	F1	50.0	39.4		ug/L		79	70 - 121	13	20
Ethylbenzene	<0.18		50.0	39.6		ug/L		79	70 - 123	13	20
Hexachlorobutadiene	<0.45		50.0	52.1		ug/L		104	51 - 150	11	20
Isopropylbenzene	<0.39	F1	50.0	36.1		ug/L		72	70 - 126	14	20
Methylene Chloride	<1.6	F2	50.0	46.8	F2	ug/L		94	69 - 125	21	20
Methyl tert-butyl ether	<0.39	F1 F2	50.0	33.9	F2	ug/L		68	55 - 123	25	20
Naphthalene	<0.34	F1 F2	50.0	33.7	F2	ug/L		67	53 - 144	30	20
n-Butylbenzene	<0.39	F1	50.0	33.7	F1	ug/L		67	68 - 125	12	20
N-Propylbenzene	<0.41		50.0	39.1		ug/L		78	69 - 127	13	20
p-Isopropyltoluene	<0.36		50.0	40.8		ug/L		82	70 - 125	15	20
sec-Butylbenzene	<0.40	F1	50.0	39.1		ug/L		78	70 - 123	12	20
Styrene	<0.39		50.0	42.8		ug/L		86	70 - 120	14	20
tert-Butylbenzene	<0.40	F1	50.0	37.9		ug/L		76	70 - 121	10	20
1,1,1,2-Tetrachloroethane	<0.46	*	50.0	52.8		ug/L		106	70 - 125	5	20
1,1,2,2-Tetrachloroethane	<0.40		50.0	45.6		ug/L		91	62 - 140	6	20
Tetrachloroethene	4.4	*	50.0	60.7		ug/L		113	70 - 128	8	20
Toluene	<0.15		50.0	48.3		ug/L		97	70 - 125	6	20
trans-1,2-Dichloroethene	<0.35		50.0	44.7		ug/L		89	70 - 125	19	20
trans-1,3-Dichloropropene	<0.36		50.0	46.7		ug/L		93	62 - 128	12	20
1,2,3-Trichlorobenzene	<0.46	F2	50.0	48.1	F2	ug/L		96	51 - 145	22	20
1,2,4-Trichlorobenzene	<0.34		50.0	36.1		ug/L		72	57 - 137	18	20
1,1,1-Trichloroethane	<0.38	F2	50.0	46.8	F2	ug/L		94	70 - 125	21	20
1,1,2-Trichloroethane	<0.35		50.0	56.6		ug/L		113	71 - 130	6	20
Trichloroethene	<0.16		50.0	47.7		ug/L		95	70 - 125	12	20
Trichlorofluoromethane	<0.43		50.0	44.5		ug/L		89	55 - 128	16	20
1,2,3-Trichloropropane	<0.41	F1	50.0	<0.41	F1	ug/L		0	50 - 133	NC	20
1,2,4-Trimethylbenzene	<0.36		50.0	40.4		ug/L		81	70 - 123	12	20
1,3,5-Trimethylbenzene	<0.25		50.0	39.9		ug/L		80	70 - 123	12	20
Vinyl chloride	<0.20	F1	50.0	36.2		ug/L		72	64 - 126	20	20
Xylenes, Total	<0.22		100	82.3		ug/L		82	70 - 125	14	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	89		75 - 126
Toluene-d8 (Surr)	103		75 - 120

Lab Chronicle

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: MW6
Date Collected: 06/19/23 13:00
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 13:59

Client Sample ID: MW5
Date Collected: 06/19/23 14:00
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 14:23

Client Sample ID: MW4
Date Collected: 06/20/23 10:35
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 14:48

Client Sample ID: MW7
Date Collected: 06/19/23 16:15
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 15:13

Client Sample ID: MW1
Date Collected: 06/19/23 10:35
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 15:37

Client Sample ID: MW2P
Date Collected: 06/20/23 11:45
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 16:02

Client Sample ID: MW2P DUP
Date Collected: 06/20/23 11:45
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 16:26

Lab Chronicle

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Client Sample ID: HCL TB
Date Collected: 06/19/23 00:00
Date Received: 06/21/23 10:05

Lab Sample ID: 500-235573-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	720115	W1T	EET CHI	06/23/23 16:51

Laboratory References:

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

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Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Pilgrim Cleaners - 25211372.21

Job ID: 500-235573-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

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Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708 534 5211

Chain of Custody Record



Client Information		Sampler Paul Grover, Budget Russell		Lab PM Fredrick, Sandie		Carr		COC No 500-113308-46833 1		
Client Contact Mr Robert Langdon		Phone		E-Mail Sandra.Fredrick@eurofins.com		Sta		Page Page 1 of 1		
Company SCS Engineers		PWS ID		Analysis Required		500-235573 COC		Job # 500-235573		
Address 2830 Dairy Dr		Due Date Requested		TAT Requested (days)		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes		
City Madison		PO # 25211372 21		WO #		Projec # 50006561		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaCO3 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH S H2S J4 G Amchlor T TSP Dodecahydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4-6 K EDTA Y Trizma L EDA Z other (specify)		
State/Zip WI 53718		Project Name Pilgrim Cleaners 25211372 21		SSO#		Site		Other:		
Phone		Email rlangdon@scsengineers.com		Project Name Pilgrim Cleaners 25211372 21		Site		Special Instructions/Note		
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6260B VOC		Total Number of Containers				
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil)	BT-Tissue, A-Air	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6260B VOC	Total Number of Containers	Special Instructions/Note
1 mw6	6/19	1300	G	Water		M	X			
2 mw 5	6/19	1400	G	Water		M	X			
3 mw4	6/20	1035	G	Water		M	X			
4 mw7	6/19	1615	G	Water		M	X			
5 mw1	6/18	1035	G	Water		M	X			
6 mw2P	6/20	1145	G	Water		M	X			
7 mw 2P DUP	6/20	1145	G	Water		M	X			
8 HCL TB				Water						
				Water						
				Water						
				Water						
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other specify)					Special Instructions/QC Requirements					
Empty Kit Reinquished by		Date		Time		Method of Shipment				
Requished by Budget Russell		Date/Time 6/20/2023/1345		Company SCS		Received by Stephanie Hernandez		Date/Time 6/21/23 1005		Company EETA
Requished by		Date/Time		Company		Received by		Date/Time		Company
Requished by		Date/Time		Company		Received by		Date/Time		Company
Custody Seals Intact. Yes <input type="checkbox"/> No <input type="checkbox"/>		Custody Seal No		Color Temperature and Color Remarks		1.3 + 0.2				

ORIGIN ID:RRLA (262) 202-5955
RYAN MATZUK
SCS ENGINEERS MADISON
2830 DAIRY DRIVE

MADISON, WI 53718
UNITED STATES US

SHI DATE 5MAY 3
ACTWC 2
CAD L289

A
110



REF:J2300001 24

TO **SAMPLE RECIEPT**
EUROFINS CHICAGO
2417 BOND STREET

500-235573 Waybi

UNIVERSITY PARK IL 60484

(708) 534-5200

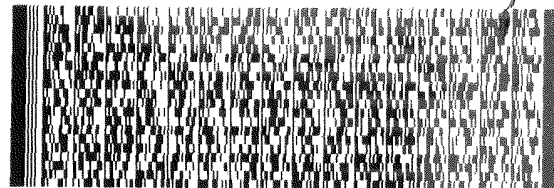
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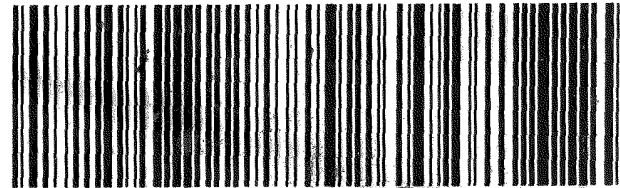
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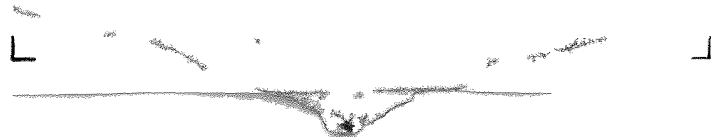
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Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-235573-1

Login Number: 235573

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	0.2
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	

SCS Engineers - Madison, WI

Sample Delivery Group: L1632619
Samples Received: 07/06/2023
Project Number: 25211372.21
Description: Pilgrim Cleaners

Report To: Rob Langdon
2830 Dairy Drive
Madison, WI 53718-6751

Entire Report Reviewed By:














Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

PILGRAM CLEANERS-14 L1632619-01 Air

Collected by: Ethan Schaefer
Collected date/time: 07/05/23 09:19
Received date/time: 07/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2090344	1	07/06/23 20:19	07/06/23 20:19	GH	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	7.03	16.7		1	WG2090344
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2090344
Benzene	71-43-2	78.10	0.238	0.760	7.22	23.1		1	WG2090344
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2090344
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2090344
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2090344
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2090344
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2090344
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2090344
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2090344
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2090344
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2090344
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2090344
Chloromethane	74-87-3	50.50	0.343	0.708	ND	ND		1	WG2090344
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2090344
Cyclohexane	110-82-7	84.20	0.251	0.864	1.98	6.82		1	WG2090344
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2090344
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2090344
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2090344
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2090344
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2090344
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2090344
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2090344
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2090344
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	9.91	39.3		1	WG2090344
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	0.936	3.71		1	WG2090344
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2090344
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2090344
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2090344
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2090344
Ethanol	64-17-5	46.10	0.883	1.66	62.3	117		1	WG2090344
Ethylbenzene	100-41-4	106	0.278	1.21	6.76	29.3		1	WG2090344
4-Ethyltoluene	622-96-8	120	0.261	1.28	6.42	31.5		1	WG2090344
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	1.20	6.74		1	WG2090344
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	32.2	159		1	WG2090344
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2090344
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2090344
Heptane	142-82-5	100	0.347	1.42	4.94	20.2		1	WG2090344
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2090344
n-Hexane	110-54-3	86.20	0.687	2.42	10.2	36.0		1	WG2090344
Isopropylbenzene	98-82-8	120.20	0.259	1.27	0.526	2.59		1	WG2090344
Methylene Chloride	75-09-2	84.90	0.326	1.13	2.90	10.1		1	WG2090344
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2090344
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	5.18	15.3		1	WG2090344
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	0.297	1.22		1	WG2090344
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2090344
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2090344
Naphthalene	91-20-3	128	1.17	6.13	1.84	9.63		1	WG2090344
2-Propanol	67-63-0	60.10	0.880	2.16	7.95	19.5		1	WG2090344
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2090344
Styrene	100-42-5	104	0.263	1.12	ND	ND		1	WG2090344
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2090344
Tetrachloroethylene	127-18-4	166	0.271	1.84	6.28	42.6		1	WG2090344
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2090344
Toluene	108-88-3	92.10	0.290	1.09	46.6	176		1	WG2090344
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2090344

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2090344
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2090344
Trichloroethylene	79-01-6	131	0.227	1.22	1.19	6.38		1	WG2090344
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	6.90	33.9		1	WG2090344
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	1.62	7.95		1	WG2090344
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	4.35	20.3		1	WG2090344
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2090344
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2090344
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2090344
Xylenes, Total	1330-20-7	106.16	0.450	1.95	37.3	162		1	WG2090344
m&p-Xylene	1330-20-7	106	0.450	1.95	27.9	121		1	WG2090344
o-Xylene	95-47-6	106	0.276	1.20	9.42	40.8		1	WG2090344
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.6				WG2090344

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3946134-3 07/06/23 13:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	0.655	U	0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3946134-3 07/06/23 13:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.259
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	U		0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	98.5			60.0-140

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

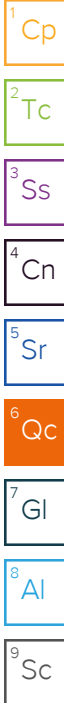
(LCS) R3946134-1 07/06/23 12:25 • (LCSD) R3946134-2 07/06/23 13:11

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.04	4.30	108	115	70.0-130			6.24	25
Allyl chloride	3.75	3.84	4.48	102	119	70.0-130			15.4	25
Benzene	3.75	4.33	4.34	115	116	70.0-130			0.231	25
Benzyl Chloride	3.75	4.12	4.15	110	111	70.0-152			0.726	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3946134-1 07/06/23 12:25 • (LCSD) R3946134-2 07/06/23 13:11

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.28	4.21	114	112	70.0-130			1.65	25
Bromoform	3.75	4.20	4.18	112	111	70.0-130			0.477	25
Bromomethane	3.75	4.02	4.06	107	108	70.0-130			0.990	25
1,3-Butadiene	3.75	4.32	4.37	115	117	70.0-130			1.15	25
Carbon disulfide	3.75	3.92	4.33	105	115	70.0-130			9.94	25
Carbon tetrachloride	3.75	4.30	4.30	115	115	70.0-130			0.000	25
Chlorobenzene	3.75	4.27	4.17	114	111	70.0-130			2.37	25
Chloroethane	3.75	4.33	4.25	115	113	70.0-130			1.86	25
Chloroform	3.75	4.31	4.29	115	114	70.0-130			0.465	25
Chloromethane	3.75	4.30	4.16	115	111	70.0-130			3.31	25
2-Chlorotoluene	3.75	4.27	4.36	114	116	70.0-130			2.09	25
Cyclohexane	3.75	4.41	4.44	118	118	70.0-130			0.678	25
Dibromochloromethane	3.75	4.26	4.12	114	110	70.0-130			3.34	25
1,2-Dibromoethane	3.75	4.36	4.21	116	112	70.0-130			3.50	25
1,2-Dichlorobenzene	3.75	4.09	4.18	109	111	70.0-130			2.18	25
1,3-Dichlorobenzene	3.75	4.11	4.23	110	113	70.0-130			2.88	25
1,4-Dichlorobenzene	3.75	4.20	4.26	112	114	70.0-130			1.42	25
1,2-Dichloroethane	3.75	4.36	4.23	116	113	70.0-130			3.03	25
1,1-Dichloroethane	3.75	4.38	4.39	117	117	70.0-130			0.228	25
1,1-Dichloroethene	3.75	4.00	4.35	107	116	70.0-130			8.38	25
cis-1,2-Dichloroethene	3.75	4.38	4.42	117	118	70.0-130			0.909	25
trans-1,2-Dichloroethene	3.75	3.88	4.38	103	117	70.0-130			12.1	25
1,2-Dichloropropane	3.75	4.44	4.37	118	117	70.0-130			1.59	25
cis-1,3-Dichloropropene	3.75	4.28	4.22	114	113	70.0-130			1.41	25
trans-1,3-Dichloropropene	3.75	4.37	4.24	117	113	70.0-130			3.02	25
1,4-Dioxane	3.75	4.36	4.28	116	114	70.0-140			1.85	25
Ethanol	3.75	4.48	4.45	119	119	55.0-148			0.672	25
Ethylbenzene	3.75	4.26	4.25	114	113	70.0-130			0.235	25
4-Ethyltoluene	3.75	4.27	4.34	114	116	70.0-130			1.63	25
Trichlorofluoromethane	3.75	4.22	4.23	113	113	70.0-130			0.237	25
Dichlorodifluoromethane	3.75	4.29	4.18	114	111	64.0-139			2.60	25
1,1,2-Trichlorotrifluoroethane	3.75	3.99	4.33	106	115	70.0-130			8.17	25
1,2-Dichlorotetrafluoroethane	3.75	4.34	4.34	116	116	70.0-130			0.000	25
Heptane	3.75	4.57	4.50	122	120	70.0-130			1.54	25
Hexachloro-1,3-butadiene	3.75	4.05	4.10	108	109	70.0-151			1.23	25
n-Hexane	3.75	3.95	4.54	105	121	70.0-130			13.9	25
Isopropylbenzene	3.75	4.35	4.47	116	119	70.0-130			2.72	25
Methylene Chloride	3.75	3.96	4.35	106	116	70.0-130			9.39	25
Methyl Butyl Ketone	3.75	4.66	4.63	124	123	70.0-149			0.646	25
2-Butanone (MEK)	3.75	4.64	4.56	124	122	70.0-130			1.74	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3946134-1 07/06/23 12:25 • (LCSD) R3946134-2 07/06/23 13:11

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.44	4.48	118	119	70.0-139			0.897	25
Methyl methacrylate	3.75	4.41	4.45	118	119	70.0-130			0.903	25
MTBE	3.75	3.89	4.22	104	113	70.0-130			8.14	25
Naphthalene	3.75	4.20	4.34	112	116	70.0-159			3.28	25
2-Propanol	3.75	3.89	4.28	104	114	70.0-139			9.55	25
Propene	3.75	4.35	4.35	116	116	64.0-144			0.000	25
Styrene	3.75	4.47	4.50	119	120	70.0-130			0.669	25
1,1,2,2-Tetrachloroethane	3.75	4.20	4.26	112	114	70.0-130			1.42	25
Tetrachloroethylene	3.75	4.22	4.16	113	111	70.0-130			1.43	25
Tetrahydrofuran	3.75	4.48	4.43	119	118	70.0-137			1.12	25
Toluene	3.75	4.39	4.34	117	116	70.0-130			1.15	25
1,2,4-Trichlorobenzene	3.75	4.06	4.11	108	110	70.0-160			1.22	25
1,1,1-Trichloroethane	3.75	4.30	4.26	115	114	70.0-130			0.935	25
1,1,2-Trichloroethane	3.75	4.30	4.21	115	112	70.0-130			2.12	25
Trichloroethylene	3.75	4.31	4.33	115	115	70.0-130			0.463	25
1,2,4-Trimethylbenzene	3.75	4.34	4.41	116	118	70.0-130			1.60	25
1,3,5-Trimethylbenzene	3.75	4.32	4.41	115	118	70.0-130			2.06	25
2,2,4-Trimethylpentane	3.75	4.45	4.45	119	119	70.0-130			0.000	25
Vinyl chloride	3.75	4.22	4.22	113	113	70.0-130			0.000	25
Vinyl Bromide	3.75	4.12	4.16	110	111	70.0-130			0.966	25
Vinyl acetate	3.75	4.22	4.26	113	114	70.0-130			0.943	25
Xylenes, Total	11.3	13.0	13.1	115	116	70.0-130			0.766	25
m&p-Xylene	7.50	8.68	8.71	116	116	70.0-130			0.345	25
o-Xylene	3.75	4.29	4.37	114	117	70.0-130			1.85	25
(S) 1,4-Bromofluorobenzene				98.0	99.5	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

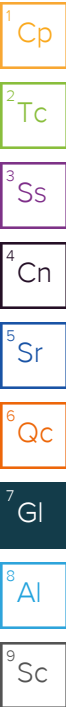
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl


⁸ Al

⁹ Sc

Company Name/Address:
SCS Engineers - Madison, WI
 2830 Dairy Drive
 Madison, WI 53718-6751

Billing Information:
Rob Langdon
 2830 Dairy Drive
 Madison, WI 53718-6751

Analysis

Chain of Custody Page ___ of ___

 PEOPLE ADVANCING SCIENCE
MT JULIET, TN

Report To:
Rob Langdon

Email To:
 rlangdon@scsengineers.com

Project Description:
Pilgrim Cleaners

City/State Collected:
 Madison, WI

Please Circle:
 PT MT CT ET

Phone:
608-224-2830


Client Project #
 25211372.21

Lab Project #
SCSENGMWI-PILGRIM

Collected by (print):
 Ethan Schaefer

Site/Facility ID #

P.O. #

Collected by (signature):


Rush? (Lab MUST Be Notified)
 Same Day Three Day
 Next Day Five Day
 Two Day

Date Results Needed

Sample ID
 Pilgrim Cleaners-14

Can #
 020474

Flow Cont. #
 024705

Date
 7/5/23

Time
 9:14-9:19

Initial
 -29"

Final
 -6"

TO-15 Summa

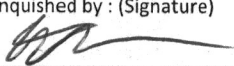

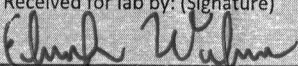
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F062
 Acctnum: **SCSENGMWI**
 Template: **T226997**
 Prelogin: **P998015**
 PM: 3828 - Jennifer A McCurdy
 PB: CSW/OK/Hub
 Shipped Via: **FedEX Ground**

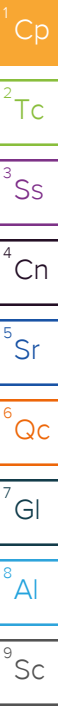
Rem./Contaminant Sample # (lab only)
 01

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

Remarks:

Relinquished by : (Signature)			Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier			Tracking #		Hold #		
			Date:	Time:	Received by: (Signature)			Date:	Time:	Condition: (lab use only) 
			7/5/23	11:30						
Relinquished by : (Signature)			Date:	Time:	Received by: (Signature)			Date:	Time:	COC Seal Intact: <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by : (Signature)			Date:	Time:	Received for lab by: (Signature)			Date:	Time:	NCF:
								7/6/23	0900	



SCS Engineers - Madison, WI

Sample Delivery Group: L1647673
Samples Received: 08/18/2023
Project Number: 25211 372.21
Description: Pilgrim Cleaners

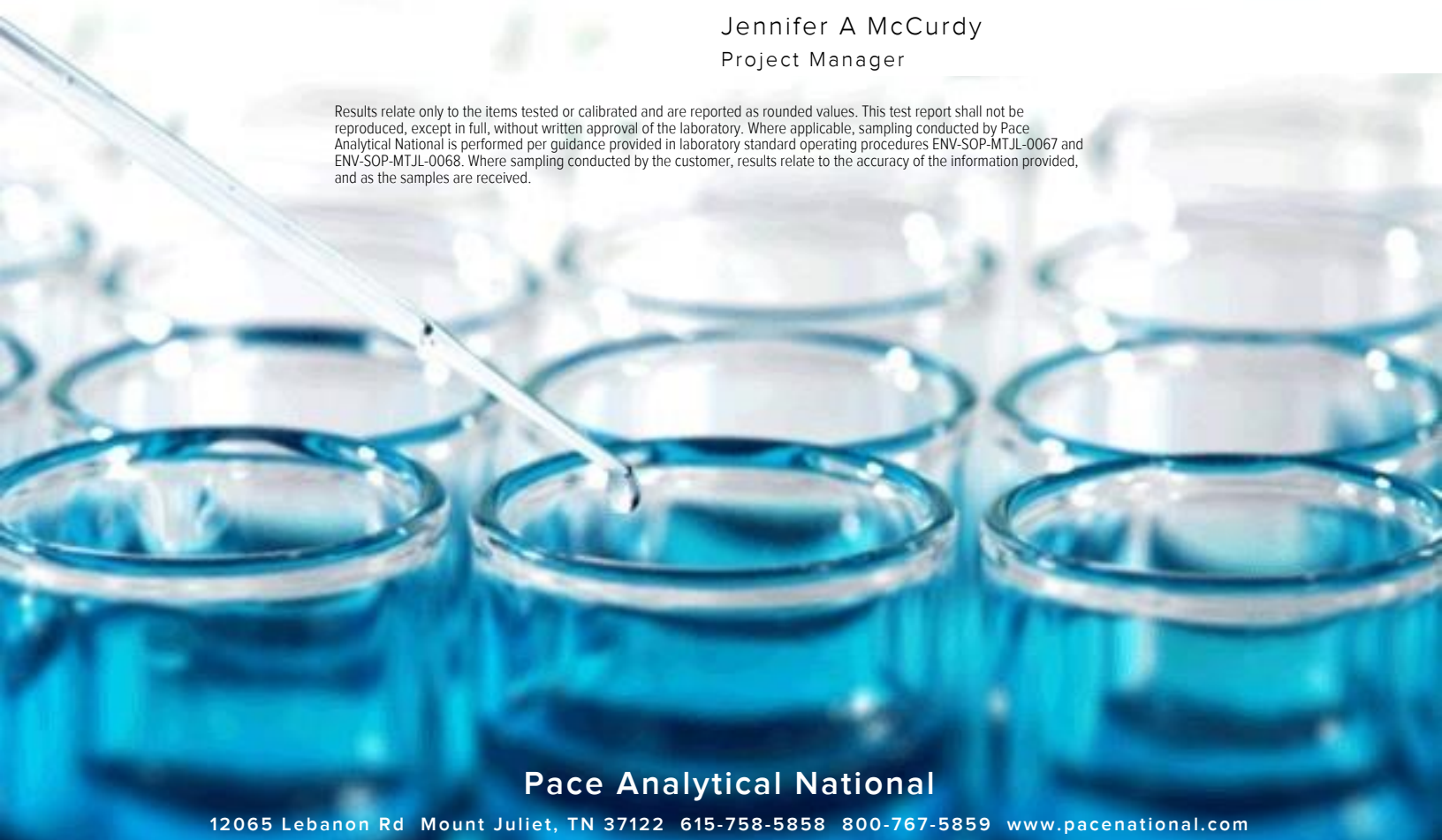
Report To: Rob Langdon
2830 Dairy Drive
Madison, WI 53718-6751

Entire Report Reviewed By:



Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

PILGRIM CLEANERS-15 L1647673-01 Air

Collected by Robert Langdon
 Collected date/time 08/16/23 14:35
 Received date/time 08/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2117579	1	08/20/23 21:15	08/20/23 21:15	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2120361	10	08/24/23 14:21	08/24/23 14:21	DAH	Mt. Juliet, TN

SVE LINE 1 L1647673-02 Air

Collected by Robert Langdon
 Collected date/time 08/16/23 14:15
 Received date/time 08/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2117579	100	08/21/23 01:48	08/21/23 01:48	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2120361	10000	08/24/23 18:31	08/24/23 18:31	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2121049	50000	08/25/23 13:47	08/25/23 13:47	DAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	9.71	23.1		1	WG2117579
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2117579
Benzene	71-43-2	78.10	0.238	0.760	ND	ND		1	WG2117579
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2117579
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2117579
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2117579
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2117579
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2117579
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2117579
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2117579
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2117579
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2117579
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2117579
Chloromethane	74-87-3	50.50	0.343	0.708	ND	ND		1	WG2117579
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2117579
Cyclohexane	110-82-7	84.20	0.251	0.864	ND	ND		1	WG2117579
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2117579
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2117579
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2117579
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2117579
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2117579
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2117579
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2117579
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2117579
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	14.0	55.5		1	WG2117579
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	1.37	5.43		1	WG2117579
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2117579
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2117579
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2117579
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2117579
Ethanol	64-17-5	46.10	0.883	1.66	5.77	10.9		1	WG2117579
Ethylbenzene	100-41-4	106	0.278	1.21	ND	ND		1	WG2117579
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2117579
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	1.86	10.5		1	WG2117579
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	56.4	279		1	WG2117579
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2117579
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2117579
Heptane	142-82-5	100	0.347	1.42	ND	ND	J4	1	WG2117579
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2117579
n-Hexane	110-54-3	86.20	0.687	2.42	ND	ND		1	WG2117579
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2117579
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2117579
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2117579
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	25.9	76.4		1	WG2117579
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2117579
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2117579
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2117579
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2117579
2-Propanol	67-63-0	60.10	0.880	2.16	ND	ND		1	WG2117579
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2117579
Styrene	100-42-5	104	0.263	1.12	ND	ND		1	WG2117579
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2117579
Tetrachloroethylene	127-18-4	166	2.71	18.4	210	1430		10	WG2120361
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	95.3	281		1	WG2117579
Toluene	108-88-3	92.10	0.290	1.09	ND	ND		1	WG2117579
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2117579

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2117579
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2117579
Trichloroethylene	79-01-6	131	0.227	1.22	3.19	17.1		1	WG2117579
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	ND	ND		1	WG2117579
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2117579
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2117579
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2117579
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2117579
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2117579
Xylenes, Total	1330-20-7	106.16	0.450	1.95	ND	ND		1	WG2117579
m&p-Xylene	1330-20-7	106	0.450	1.95	ND	ND		1	WG2117579
o-Xylene	95-47-6	106	0.276	1.20	ND	ND		1	WG2117579
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				WG2117579
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG2120361

1
Cp

2
Tc

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Ss

4
Cn

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Sr

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Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	19500	46300	768000	1820000		10000	WG2120361
Allyl chloride	107-05-1	76.53	38.0	119	ND	ND		100	WG2117579
Benzene	71-43-2	78.10	23.8	76.0	33.8	108		100	WG2117579
Benzyl Chloride	100-44-7	127	19.9	103	ND	ND		100	WG2117579
Bromodichloromethane	75-27-4	164	23.4	157	ND	ND		100	WG2117579
Bromoform	75-25-2	253	24.4	252	ND	ND		100	WG2117579
Bromomethane	74-83-9	94.90	32.7	127	ND	ND		100	WG2117579
1,3-Butadiene	106-99-0	54.10	34.7	76.8	ND	ND		100	WG2117579
Carbon disulfide	75-15-0	76.10	34.0	106	35.3	110		100	WG2117579
Carbon tetrachloride	56-23-5	154	24.4	154	ND	ND		100	WG2117579
Chlorobenzene	108-90-7	113	27.7	128	ND	ND		100	WG2117579
Chloroethane	75-00-3	64.50	33.2	87.6	ND	ND		100	WG2117579
Chloroform	67-66-3	119	23.9	116	ND	ND		100	WG2117579
Chloromethane	74-87-3	50.50	34.3	70.8	121	250		100	WG2117579
2-Chlorotoluene	95-49-8	126	27.6	142	ND	ND		100	WG2117579
Cyclohexane	110-82-7	84.20	25.1	86.4	ND	ND		100	WG2117579
Dibromochloromethane	124-48-1	208	24.2	206	ND	ND		100	WG2117579
1,2-Dibromoethane	106-93-4	188	24.0	185	ND	ND		100	WG2117579
1,2-Dichlorobenzene	95-50-1	147	42.7	257	ND	ND		100	WG2117579
1,3-Dichlorobenzene	541-73-1	147	60.7	365	ND	ND		100	WG2117579
1,4-Dichlorobenzene	106-46-7	147	18.6	112	ND	ND		100	WG2117579
1,2-Dichloroethane	107-06-2	99	23.3	94.3	ND	ND		100	WG2117579
1,1-Dichloroethane	75-34-3	98	24.1	96.6	ND	ND		100	WG2117579
1,1-Dichloroethene	75-35-4	96.90	25.4	101	ND	ND		100	WG2117579
cis-1,2-Dichloroethene	156-59-2	96.90	26.1	103	ND	ND		100	WG2117579
trans-1,2-Dichloroethene	156-60-5	96.90	22.4	88.8	ND	ND		100	WG2117579
1,2-Dichloropropane	78-87-5	113	25.3	117	ND	ND		100	WG2117579
cis-1,3-Dichloropropene	10061-01-5	111	23.0	104	ND	ND		100	WG2117579
trans-1,3-Dichloropropene	10061-02-6	111	24.3	110	ND	ND		100	WG2117579
1,4-Dioxane	123-91-1	88.10	27.8	100	ND	ND		100	WG2117579
Ethanol	64-17-5	46.10	88.3	166	2100	3960		100	WG2117579
Ethylbenzene	100-41-4	106	27.8	121	44.5	193		100	WG2117579
4-Ethyltoluene	622-96-8	120	26.1	128	ND	ND		100	WG2117579
Trichlorofluoromethane	75-69-4	137.40	27.3	153	ND	ND		100	WG2117579
Dichlorodifluoromethane	75-71-8	120.92	45.7	226	52.1	258		100	WG2117579
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	26.4	202	ND	ND		100	WG2117579
1,2-Dichlorotetrafluoroethane	76-14-2	171	29.7	208	ND	ND		100	WG2117579
Heptane	142-82-5	100	34.7	142	ND	ND	J4	100	WG2117579
Hexachloro-1,3-butadiene	87-68-3	261	35.0	374	ND	ND		100	WG2117579
n-Hexane	110-54-3	86.20	68.7	242	148	522		100	WG2117579
Isopropylbenzene	98-82-8	120.20	25.9	127	ND	ND		100	WG2117579
Methylene Chloride	75-09-2	84.90	32.6	113	68.4	238		100	WG2117579
Methyl Butyl Ketone	591-78-6	100	44.3	181	ND	ND		100	WG2117579
2-Butanone (MEK)	78-93-3	72.10	13600	40100	1220000	3600000		50000	WG2121049
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.5	104	ND	ND		100	WG2117579
Methyl methacrylate	80-62-6	100.12	29.2	120	ND	ND		100	WG2117579
MTBE	1634-04-4	88.10	21.6	77.8	ND	ND		100	WG2117579
Naphthalene	91-20-3	128	117	613	ND	ND		100	WG2117579
2-Propanol	67-63-0	60.10	88.0	216	ND	ND		100	WG2117579
Propene	115-07-1	42.10	31.1	53.6	ND	ND		100	WG2117579
Styrene	100-42-5	104	26.3	112	ND	ND		100	WG2117579
1,1,2,2-Tetrachloroethane	79-34-5	168	24.8	170	ND	ND		100	WG2117579
Tetrachloroethylene	127-18-4	166	27.1	184	397	2700		100	WG2117579
Tetrahydrofuran	109-99-9	72.10	12200	36000	3580000	10600000		50000	WG2121049
Toluene	108-88-3	92.10	29.0	109	48.8	184		100	WG2117579
1,2,4-Trichlorobenzene	120-82-1	181	49.3	365	ND	ND		100	WG2117579

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SVE LINE 1

SAMPLE RESULTS - 02

Collected date/time: 08/16/23 14:15

L1647673

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	24.5	133	ND	ND		100	WG2117579
1,1,2-Trichloroethane	79-00-5	133	25.8	140	ND	ND		100	WG2117579
Trichloroethylene	79-01-6	131	22.7	122	ND	ND		100	WG2117579
1,2,4-Trimethylbenzene	95-63-6	120	25.5	125	ND	ND		100	WG2117579
1,3,5-Trimethylbenzene	108-67-8	120	26.0	128	ND	ND		100	WG2117579
2,2,4-Trimethylpentane	540-84-1	114.22	44.3	207	3800	17800		100	WG2117579
Vinyl chloride	75-01-4	62.50	31.6	80.8	ND	ND		100	WG2117579
Vinyl Bromide	593-60-2	106.95	28.4	124	ND	ND		100	WG2117579
Vinyl acetate	108-05-4	86.10	38.7	136	ND	ND		100	WG2117579
Xylenes, Total	1330-20-7	106.16	45.0	195	147	638		100	WG2117579
m&p-Xylene	1330-20-7	106	45.0	195	104	451		100	WG2117579
o-Xylene	95-47-6	106	27.6	120	43.1	187		100	WG2117579
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		65.5				WG2117579
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2120361
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG2121049

1
Cp

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Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3964849-3 08/20/23 10:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	U		0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3964849-3 08/20/23 10:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.259
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	U		0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	99.2			60.0-140

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3964849-1 08/20/23 09:07 • (LCSD) R3964849-2 08/20/23 09:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.42	4.43	118	118	70.0-130			0.226	25
Allyl chloride	3.75	4.03	3.95	107	105	70.0-130			2.01	25
Benzene	3.75	4.25	4.27	113	114	70.0-130			0.469	25
Benzyl Chloride	3.75	4.56	4.48	122	119	70.0-152			1.77	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3964849-1 08/20/23 09:07 • (LCSD) R3964849-2 08/20/23 09:47

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.29	4.37	114	117	70.0-130			1.85	25
Bromoform	3.75	4.30	4.33	115	115	70.0-130			0.695	25
Bromomethane	3.75	4.24	4.34	113	116	70.0-130			2.33	25
1,3-Butadiene	3.75	4.42	4.49	118	120	70.0-130			1.57	25
Carbon disulfide	3.75	4.40	4.46	117	119	70.0-130			1.35	25
Carbon tetrachloride	3.75	4.32	4.31	115	115	70.0-130			0.232	25
Chlorobenzene	3.75	4.30	4.33	115	115	70.0-130			0.695	25
Chloroethane	3.75	4.31	4.43	115	118	70.0-130			2.75	25
Chloroform	3.75	4.33	4.32	115	115	70.0-130			0.231	25
Chloromethane	3.75	4.29	4.35	114	116	70.0-130			1.39	25
2-Chlorotoluene	3.75	4.46	4.53	119	121	70.0-130			1.56	25
Cyclohexane	3.75	4.20	4.20	112	112	70.0-130			0.000	25
Dibromochloromethane	3.75	4.29	4.31	114	115	70.0-130			0.465	25
1,2-Dibromoethane	3.75	4.35	4.37	116	117	70.0-130			0.459	25
1,2-Dichlorobenzene	3.75	4.45	4.46	119	119	70.0-130			0.224	25
1,3-Dichlorobenzene	3.75	4.43	4.50	118	120	70.0-130			1.57	25
1,4-Dichlorobenzene	3.75	4.47	4.52	119	121	70.0-130			1.11	25
1,2-Dichloroethane	3.75	4.37	4.42	117	118	70.0-130			1.14	25
1,1-Dichloroethane	3.75	4.37	4.39	117	117	70.0-130			0.457	25
1,1-Dichloroethene	3.75	4.36	4.42	116	118	70.0-130			1.37	25
cis-1,2-Dichloroethene	3.75	4.40	4.42	117	118	70.0-130			0.454	25
trans-1,2-Dichloroethene	3.75	4.40	4.45	117	119	70.0-130			1.13	25
1,2-Dichloropropane	3.75	4.35	4.43	116	118	70.0-130			1.82	25
cis-1,3-Dichloropropene	3.75	4.40	4.38	117	117	70.0-130			0.456	25
trans-1,3-Dichloropropene	3.75	4.33	4.38	115	117	70.0-130			1.15	25
1,4-Dioxane	3.75	4.42	4.37	118	117	70.0-140			1.14	25
Ethanol	3.75	4.32	4.48	115	119	55.0-148			3.64	25
Ethylbenzene	3.75	4.22	4.22	113	113	70.0-130			0.000	25
4-Ethyltoluene	3.75	4.33	4.40	115	117	70.0-130			1.60	25
Trichlorofluoromethane	3.75	4.40	4.39	117	117	70.0-130			0.228	25
Dichlorodifluoromethane	3.75	4.38	4.44	117	118	64.0-139			1.36	25
1,1,2-Trichlorotrifluoroethane	3.75	4.34	4.37	116	117	70.0-130			0.689	25
1,2-Dichlorotetrafluoroethane	3.75	4.36	4.39	116	117	70.0-130			0.686	25
Heptane	3.75	2.56	2.78	68.3	74.1	70.0-130	J4		8.24	25
Hexachloro-1,3-butadiene	3.75	4.28	4.22	114	113	70.0-151			1.41	25
n-Hexane	3.75	4.26	4.30	114	115	70.0-130			0.935	25
Isopropylbenzene	3.75	4.19	4.35	112	116	70.0-130			3.75	25
Methylene Chloride	3.75	4.31	4.37	115	117	70.0-130			1.38	25
Methyl Butyl Ketone	3.75	4.38	4.42	117	118	70.0-149			0.909	25
2-Butanone (MEK)	3.75	4.38	4.44	117	118	70.0-130			1.36	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3964849-1 08/20/23 09:07 • (LCSD) R3964849-2 08/20/23 09:47

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.39	4.42	117	118	70.0-139			0.681	25
Methyl methacrylate	3.75	4.21	4.32	112	115	70.0-130			2.58	25
MTBE	3.75	4.26	4.39	114	117	70.0-130			3.01	25
Naphthalene	3.75	4.43	4.38	118	117	70.0-159			1.14	25
2-Propanol	3.75	4.49	4.52	120	121	70.0-139			0.666	25
Propene	3.75	4.46	4.51	119	120	64.0-144			1.11	25
Styrene	3.75	4.23	4.32	113	115	70.0-130			2.11	25
1,1,2,2-Tetrachloroethane	3.75	4.55	4.65	121	124	70.0-130			2.17	25
Tetrachloroethylene	3.75	4.26	4.30	114	115	70.0-130			0.935	25
Tetrahydrofuran	3.75	4.25	4.26	113	114	70.0-137			0.235	25
Toluene	3.75	4.28	4.27	114	114	70.0-130			0.234	25
1,2,4-Trichlorobenzene	3.75	4.37	4.29	117	114	70.0-160			1.85	25
1,1,1-Trichloroethane	3.75	4.25	4.30	113	115	70.0-130			1.17	25
1,1,2-Trichloroethane	3.75	4.30	4.31	115	115	70.0-130			0.232	25
Trichloroethylene	3.75	4.38	4.39	117	117	70.0-130			0.228	25
1,2,4-Trimethylbenzene	3.75	4.35	4.38	116	117	70.0-130			0.687	25
1,3,5-Trimethylbenzene	3.75	4.41	4.41	118	118	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	4.33	4.32	115	115	70.0-130			0.231	25
Vinyl chloride	3.75	4.38	4.44	117	118	70.0-130			1.36	25
Vinyl Bromide	3.75	4.32	4.42	115	118	70.0-130			2.29	25
Vinyl acetate	3.75	4.68	4.40	125	117	70.0-130			6.17	25
Xylenes, Total	11.3	12.6	12.7	112	112	70.0-130			0.791	25
m&p-Xylene	7.50	8.47	8.54	113	114	70.0-130			0.823	25
o-Xylene	3.75	4.10	4.20	109	112	70.0-130			2.41	25
(S) 1,4-Bromofluorobenzene				98.8	100	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3965365-3 08/24/23 10:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.95
Tetrachloroethylene	U		0.0814	0.271
(S) 1,4-Bromofluorobenzene	98.7			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3965365-1 08/24/23 09:20 • (LCSD) R3965365-2 08/24/23 10:06

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.04	4.19	108	112	70.0-130			3.65	25
Tetrachloroethylene	3.75	4.15	4.16	111	111	70.0-130			0.241	25
(S) 1,4-Bromofluorobenzene				99.0	98.6	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3965539-3 08/25/23 09:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
2-Butanone (MEK)	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
(S) 1,4-Bromofluorobenzene	99.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3965539-1 08/25/23 08:55 • (LCSD) R3965539-2 08/25/23 09:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
2-Butanone (MEK)	3.75	3.92	4.04	105	108	70.0-130			3.02	25
Tetrahydrofuran	3.75	3.80	3.88	101	103	70.0-137			2.08	25
(S) 1,4-Bromofluorobenzene				100	100	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

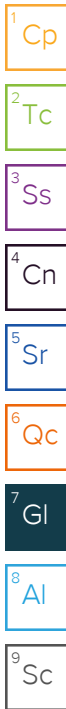
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J4	The associated batch QC was outside the established quality control range for accuracy.
----	---



ACCREDITATIONS & LOCATIONS

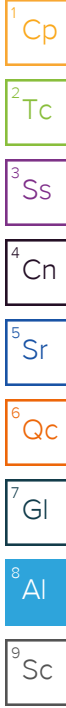
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

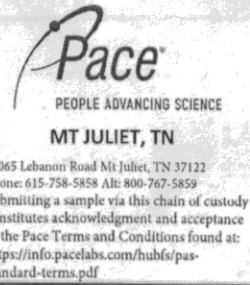


Company Name/Address:
SCS Engineers - Madison, WI
 2830 Dairy Drive
 Madison, WI 53718-6751

Billing Information:
Rob Langdon
 2830 Dairy Drive
 Madison, WI 53718-6751

Analysis

Chain of Custody Page 1 of 1



Report To:
Rob Langdon

Email To:
 rlangdon@scsengineers.com

Project Description:
Pilgrim Cleaners

City/State Collected:
Madison, WI

Please Circle:
 PT MT CT ET

Phone:
608-224-2830

Client Project #
25211372.21

Lab Project #
SCSENGMWI-PILGRIM

Collected by (print):
Robert Langdon

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
 Same Day Three Day
 Next Day Five Day
 Two Day

Date Results Needed

Sample ID	Can #	Flow Cont. #	Date	Time	Collection							Canister Pressure/Vacuum		
					Initial	Final						Rem./Contaminant	Sample # (lab only)	
Pilgrim Cleaners 15	022854	024932	8/14/23	1435	-29	-4	X							-01
SVE Line 1	005403	010345	8/16/23	1415	-28	-3	X							-02

Sample Receipt Checklist
 COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

Remarks:

Relinquished by: (Signature) 	Date: 8/17/23	Time: 1500	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier _____	Tracking #	Hold #
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: Time:	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: Time:	COC Seal Intact: <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	NCF:



ANALYTICAL REPORT

November 14, 2023

Revised Report

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

SCS Engineers - Madison, WI

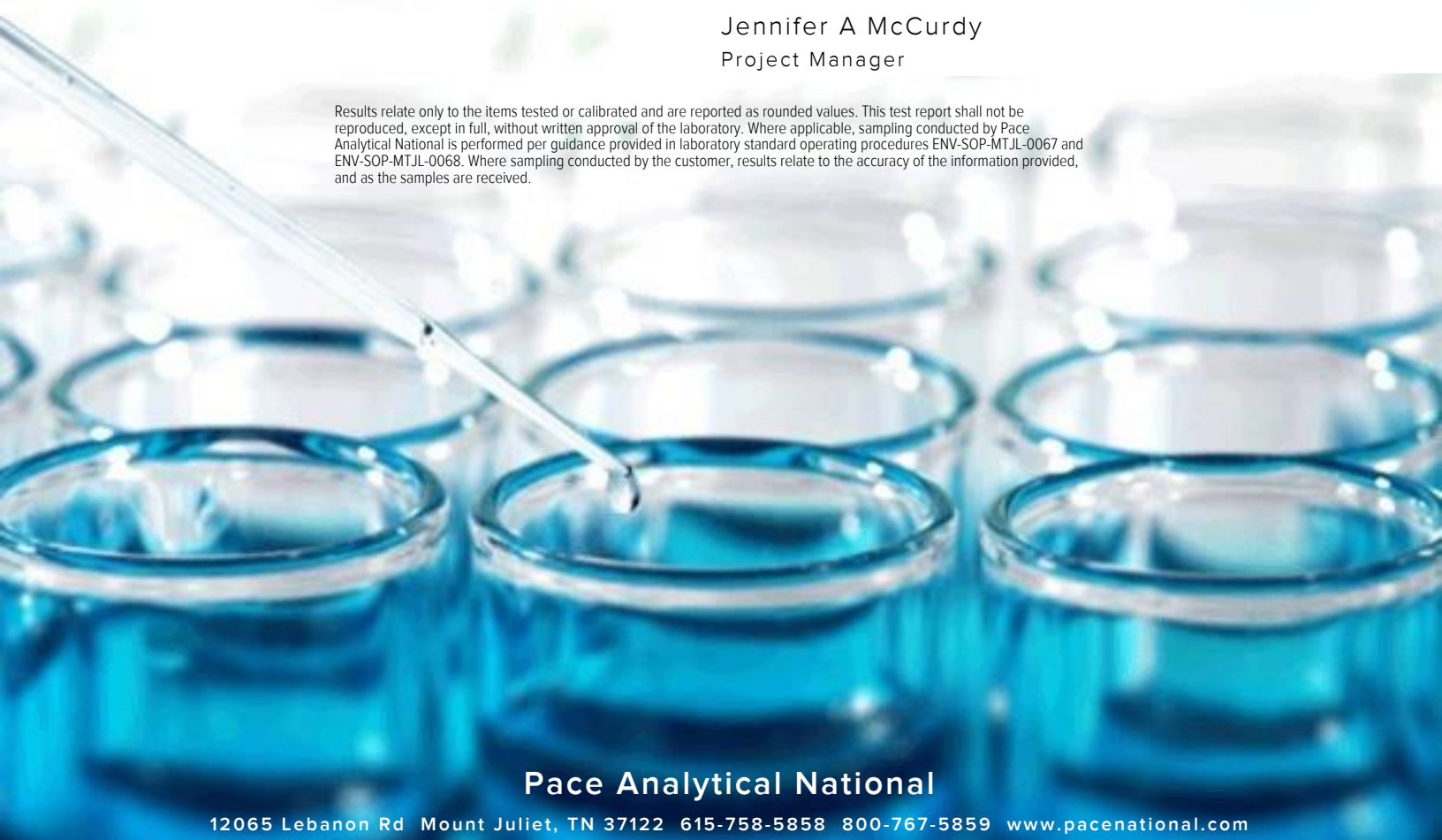
Sample Delivery Group: L1671420
 Samples Received: 10/28/2023
 Project Number: 25211372.21
 Description: Pilgrim Cleaners

Report To: Rob Langdon
 2830 Dairy Drive
 Madison, WI 53718-6751

Entire Report Reviewed By:

Jennifer A McCurdy
Project Manager










Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Cn: Case Narrative	4	
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SAMPLE SUMMARY

VP-1 (PILGRIM UNIT) L1671420-01 Air

Collected by Robert Langdon
 Collected date/time 10/25/23 16:21
 Received date/time 10/28/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2164908	1	11/05/23 18:49	11/05/23 18:49	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2165394	20	11/06/23 22:44	11/06/23 22:44	JAP	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

VP-2 (WT. WATCHERS UNIT) L1671420-04 Air

Collected by Robert Langdon
 Collected date/time 10/25/23 17:32
 Received date/time 10/28/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2165398	1	11/06/23 13:58	11/06/23 13:58	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2167838	100	11/09/23 16:43	11/09/23 16:43	DAH	Mt. Juliet, TN

PILGRIM CLEANERS 15 L1671420-05 Air

Collected by Robert Langdon
 Collected date/time 10/25/23 17:54
 Received date/time 10/28/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2165398	1	11/06/23 14:40	11/06/23 14:40	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2166803	10	11/08/23 13:59	11/08/23 13:59	DAH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



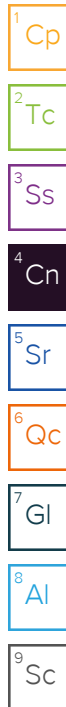
Jennifer A McCurdy
Project Manager

Report Revision History

Level II Report - Version 1: 11/14/23 07:48

Project Narrative

For sample ID, VP-1 (WT. WATCHERS UNIT): Cannister Valve broken. Valve was stuck in the open position. Unable to analyze. 11/03/23 JM
VP-2 (Pilgrim Unit) - Faulty Flow controller. Do not analyze per client. 11/13/23 JM
Revise to report only needed compounds. 11/14/23 JM



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	5.23	20.7	147	583		20	WG2165394
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	35.3	140		1	WG2164908
Tetrachloroethylene	127-18-4	166	5.43	36.9	1090	7400		20	WG2165394
Trichloroethylene	79-01-6	131	0.227	1.22	5.67	30.4		1	WG2164908
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2164908
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG2164908
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.0				WG2165394

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	26.1	103	568	2250		100	WG2167838
trans-1,2-Dichloroethene	156-60-5	96.90	22.4	88.8	79.3	314		100	WG2167838
Tetrachloroethylene	127-18-4	166	0.271	1.84	50.2	341		1	WG2165398
Trichloroethylene	79-01-6	131	0.227	1.22	9.61	51.5		1	WG2165398
Vinyl chloride	75-01-4	62.50	0.316	0.808	1.51	3.86		1	WG2165398
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.4				WG2165398
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		115				WG2167838

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	5.32	12.6		1	WG2165398
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2165398
Benzene	71-43-2	78.10	0.238	0.760	ND	ND		1	WG2165398
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2165398
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2165398
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2165398
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2165398
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2165398
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2165398
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2165398
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2165398
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2165398
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2165398
Chloromethane	74-87-3	50.50	0.343	0.708	ND	ND		1	WG2165398
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2165398
Cyclohexane	110-82-7	84.20	0.251	0.864	ND	ND		1	WG2165398
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2165398
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2165398
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2165398
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2165398
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2165398
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2165398
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2165398
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2165398
cis-1,2-Dichloroethene	156-59-2	96.90	2.61	10.3	7.29	28.9		10	WG2166803
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	1.32	5.23		1	WG2165398
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2165398
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2165398
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2165398
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2165398
Ethanol	64-17-5	46.10	0.883	1.66	16.5	31.1		1	WG2165398
Ethylbenzene	100-41-4	106	0.278	1.21	ND	ND		1	WG2165398
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2165398
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	2.87	16.1		1	WG2165398
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	47.8	236		1	WG2165398
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2165398
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2165398
Heptane	142-82-5	100	0.347	1.42	ND	ND		1	WG2165398
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2165398
n-Hexane	110-54-3	86.20	0.687	2.42	ND	ND		1	WG2165398
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2165398
Methylene Chloride	75-09-2	84.90	0.326	1.13	0.904	3.14		1	WG2165398
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2165398
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	ND	ND		1	WG2165398
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2165398
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2165398
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2165398
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2165398
2-Propanol	67-63-0	60.10	0.880	2.16	ND	ND		1	WG2165398
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2165398
Styrene	100-42-5	104	0.263	1.12	ND	ND		1	WG2165398
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2165398
Tetrachloroethylene	127-18-4	166	2.71	18.4	339	2300		10	WG2166803
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2165398
Toluene	108-88-3	92.10	0.290	1.09	0.489	1.84		1	WG2165398
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2165398

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	0.374	2.03		1	WG2165398
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2165398
Trichloroethylene	79-01-6	131	0.227	1.22	2.57	13.8		1	WG2165398
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	ND	ND		1	WG2165398
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2165398
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2165398
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2165398
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2165398
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2165398
Xylenes, Total	1330-20-7	106.16	0.450	1.95	0.623	2.71		1	WG2165398
m&p-Xylene	1330-20-7	106	0.450	1.95	ND	ND		1	WG2165398
o-Xylene	95-47-6	106	0.276	1.20	ND	ND		1	WG2165398
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.2				WG2165398
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.9				WG2166803

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3995901-3 11/05/23 11:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
trans-1,2-Dichloroethene	U		0.0673	0.224
Trichloroethylene	U		0.0680	0.227
Vinyl chloride	U		0.0949	0.316
(S) 1,4-Bromofluorobenzene	101			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3995901-1 11/05/23 09:50 • (LCSD) R3995901-2 11/05/23 10:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
trans-1,2-Dichloroethene	3.75	3.85	3.86	103	103	70.0-130			0.259	25
Trichloroethylene	3.75	3.76	3.88	100	103	70.0-130			3.14	25
Vinyl chloride	3.75	3.82	3.92	102	105	70.0-130			2.58	25
(S) 1,4-Bromofluorobenzene				101	102	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3996481-1 11/06/23 09:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.261
Tetrachloroethylene	U		0.0814	0.271
<i>(S) 1,4-Bromofluorobenzene</i>	95.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996481-2 11/06/23 11:48 • (LCSD) R3996481-3 11/06/23 12:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	3.58	3.57	95.5	95.2	70.0-130			0.280	25
Tetrachloroethylene	3.75	3.61	3.50	96.3	93.3	70.0-130			3.09	25
<i>(S) 1,4-Bromofluorobenzene</i>				94.7	97.3	60.0-140				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3996722-3 11/06/23 10:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	1.36		0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687
Isopropylbenzene	U		0.0777	0.259

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3996722-3 11/06/23 10:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	0.159	U	0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	102			60.0-140

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996722-1 11/06/23 09:28 • (LCSD) R3996722-2 11/06/23 10:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.59	3.58	95.7	95.5	70.0-130			0.279	25
Allyl chloride	3.75	4.04	4.65	108	124	70.0-130			14.0	25
Benzene	3.75	3.61	3.75	96.3	100	70.0-130			3.80	25
Benzyl Chloride	3.75	3.62	3.76	96.5	100	70.0-152			3.79	25
Bromodichloromethane	3.75	4.02	3.95	107	105	70.0-130			1.76	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996722-1 11/06/23 09:28 • (LCSD) R3996722-2 11/06/23 10:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	3.96	4.04	106	108	70.0-130			2.00	25
Bromomethane	3.75	3.73	3.74	99.5	99.7	70.0-130			0.268	25
1,3-Butadiene	3.75	3.41	3.34	90.9	89.1	70.0-130			2.07	25
Carbon disulfide	3.75	3.63	3.87	96.8	103	70.0-130			6.40	25
Carbon tetrachloride	3.75	3.84	3.88	102	103	70.0-130			1.04	25
Chlorobenzene	3.75	3.77	3.90	101	104	70.0-130			3.39	25
Chloroethane	3.75	3.89	3.91	104	104	70.0-130			0.513	25
Chloroform	3.75	3.65	3.75	97.3	100	70.0-130			2.70	25
Chloromethane	3.75	3.66	3.68	97.6	98.1	70.0-130			0.545	25
2-Chlorotoluene	3.75	3.57	3.73	95.2	99.5	70.0-130			4.38	25
Cyclohexane	3.75	3.84	3.69	102	98.4	70.0-130			3.98	25
Dibromochloromethane	3.75	3.96	4.12	106	110	70.0-130			3.96	25
1,2-Dibromoethane	3.75	3.87	3.91	103	104	70.0-130			1.03	25
1,2-Dichlorobenzene	3.75	3.73	3.86	99.5	103	70.0-130			3.43	25
1,3-Dichlorobenzene	3.75	3.70	3.80	98.7	101	70.0-130			2.67	25
1,4-Dichlorobenzene	3.75	3.84	3.91	102	104	70.0-130			1.81	25
1,2-Dichloroethane	3.75	3.84	3.86	102	103	70.0-130			0.519	25
1,1-Dichloroethane	3.75	3.67	3.71	97.9	98.9	70.0-130			1.08	25
1,1-Dichloroethene	3.75	3.54	3.68	94.4	98.1	70.0-130			3.88	25
trans-1,2-Dichloroethene	3.75	3.62	3.65	96.5	97.3	70.0-130			0.825	25
1,2-Dichloropropane	3.75	3.56	3.71	94.9	98.9	70.0-130			4.13	25
cis-1,3-Dichloropropene	3.75	3.76	3.83	100	102	70.0-130			1.84	25
trans-1,3-Dichloropropene	3.75	3.58	3.80	95.5	101	70.0-130			5.96	25
1,4-Dioxane	3.75	3.77	3.81	101	102	70.0-140			1.06	25
Ethanol	3.75	4.66	4.56	124	122	55.0-148			2.17	25
Ethylbenzene	3.75	3.56	3.75	94.9	100	70.0-130			5.20	25
4-Ethyltoluene	3.75	3.65	3.70	97.3	98.7	70.0-130			1.36	25
Trichlorofluoromethane	3.75	3.84	3.88	102	103	70.0-130			1.04	25
Dichlorodifluoromethane	3.75	3.69	3.64	98.4	97.1	64.0-139			1.36	25
1,1,2-Trichlorotrifluoroethane	3.75	3.76	3.86	100	103	70.0-130			2.62	25
1,2-Dichlorotetrafluoroethane	3.75	3.80	3.68	101	98.1	70.0-130			3.21	25
Heptane	3.75	3.55	3.64	94.7	97.1	70.0-130			2.50	25
Hexachloro-1,3-butadiene	3.75	3.77	3.95	101	105	70.0-151			4.66	25
n-Hexane	3.75	3.57	3.57	95.2	95.2	70.0-130			0.000	25
Isopropylbenzene	3.75	3.79	3.87	101	103	70.0-130			2.09	25
Methylene Chloride	3.75	3.53	3.54	94.1	94.4	70.0-130			0.283	25
Methyl Butyl Ketone	3.75	3.72	3.68	99.2	98.1	70.0-149			1.08	25
2-Butanone (MEK)	3.75	3.72	3.79	99.2	101	70.0-130			1.86	25
4-Methyl-2-pentanone (MIBK)	3.75	3.63	3.59	96.8	95.7	70.0-139			1.11	25
Methyl methacrylate	3.75	3.17	3.53	84.5	94.1	70.0-130			10.7	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996722-1 11/06/23 09:28 • (LCSD) R3996722-2 11/06/23 10:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
MTBE	3.75	3.45	3.48	92.0	92.8	70.0-130			0.866	25
Naphthalene	3.75	3.73	3.81	99.5	102	70.0-159			2.12	25
2-Propanol	3.75	3.81	3.64	102	97.1	70.0-139			4.56	25
Propene	3.75	3.64	3.67	97.1	97.9	64.0-144			0.821	25
Styrene	3.75	3.70	3.85	98.7	103	70.0-130			3.97	25
1,1,2,2-Tetrachloroethane	3.75	3.55	3.81	94.7	102	70.0-130			7.07	25
Tetrachloroethylene	3.75	3.97	4.04	106	108	70.0-130			1.75	25
Tetrahydrofuran	3.75	3.59	3.56	95.7	94.9	70.0-137			0.839	25
Toluene	3.75	3.66	3.65	97.6	97.3	70.0-130			0.274	25
1,2,4-Trichlorobenzene	3.75	3.64	3.80	97.1	101	70.0-160			4.30	25
1,1,1-Trichloroethane	3.75	3.60	3.75	96.0	100	70.0-130			4.08	25
1,1,2-Trichloroethane	3.75	3.72	3.68	99.2	98.1	70.0-130			1.08	25
Trichloroethylene	3.75	3.64	3.65	97.1	97.3	70.0-130			0.274	25
1,2,4-Trimethylbenzene	3.75	3.72	3.71	99.2	98.9	70.0-130			0.269	25
1,3,5-Trimethylbenzene	3.75	4.47	4.53	119	121	70.0-130			1.33	25
2,2,4-Trimethylpentane	3.75	3.65	3.60	97.3	96.0	70.0-130			1.38	25
Vinyl chloride	3.75	3.41	3.47	90.9	92.5	70.0-130			1.74	25
Vinyl Bromide	3.75	3.92	3.83	105	102	70.0-130			2.32	25
Vinyl acetate	3.75	3.30	3.62	88.0	96.5	70.0-130			9.25	25
Xylenes, Total	11.3	10.7	11.1	94.7	98.2	70.0-130			3.67	25
m&p-Xylene	7.50	7.13	7.41	95.1	98.8	70.0-130			3.85	25
o-Xylene	3.75	3.53	3.68	94.1	98.1	70.0-130			4.16	25
<i>(S) 1,4-Bromofluorobenzene</i>				101	100	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3997202-3 11/08/23 11:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.261
Tetrachloroethylene	U		0.0814	0.271
<i>(S) 1,4-Bromofluorobenzene</i>	96.4			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3997202-1 11/08/23 09:45 • (LCSD) R3997202-2 11/08/23 10:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	3.12	3.13	83.2	83.5	70.0-130			0.320	25
Tetrachloroethylene	3.75	4.09	4.01	109	107	70.0-130			1.98	25
<i>(S) 1,4-Bromofluorobenzene</i>				95.3	96.3	60.0-140				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3997840-3 11/09/23 14:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
(S) 1,4-Bromofluorobenzene	114			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3997840-1 11/09/23 10:06 • (LCSD) R3997840-2 11/09/23 10:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	4.08	4.12	109	110	70.0-130			0.976	25
trans-1,2-Dichloroethene	3.75	4.42	4.40	118	117	70.0-130			0.454	25
(S) 1,4-Bromofluorobenzene				114	114	60.0-140				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

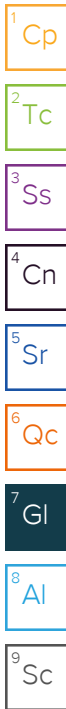
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



ACCREDITATIONS & LOCATIONS

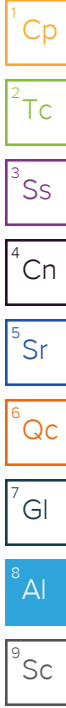
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



J130

Company Name: **SCS Engineers - Madison, WI**
 Street Address: **2830 Dairy Drive Madison, WI 53718-6751**
 City, State Zip: **Madison, WI 53718-6751**
 Customer Project #: **25211372.21**
 Project Name: **Pilgrim Cleaners**
 Site Collection Info/Facility ID (as applicable): **SCSENGMWI-PILGRIM**
 Time Zone Collected: [] AK [] PT [] MT [X] ET []



Scan QR code for instructions

Contact/Report To: **Rob Langdon**
 Phone #: **608-224-2830**
 E-Mail: **rlangdon@scsengineers.com**
 Cc E-Mail:
 Invoice to: **SAME**
 Invoice E-Mail:
 Purchase Order # (if applicable): **25211372.21**
 Quote #:
 State origin of sample(s): **WI**

Field Information

Analyses Requested
TO-15 Summa (Full VOC)
Dry cleaner VOC

Proj. Manager:
3828 - Jennifer A McCurdy

AcctNum / Client ID:
SCSENGMWI

Table #:
T226997

Profile / Template:
T226997

Prelog / Bottle Ord. ID:
P1029653

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m³/min or L/min)	Total Volume Sampled (m³ or L)	Lab Use Only	
				Date	Time	Date	Time						TO-15 Summa (Full VOC)	Dry cleaner VOC
VP-1 (Pilgrim unit)	SV	28695	01311	10/25/23	1:55	10/25/23	16:24	-28	-5				X	-01
VP-2 (Pilgrim unit)	SV	12679	006495	10/25/23	1:30	10/25/23	16:20	-28	-10				X	-02
VP-1 (Wt. Watchers unit)	SV	22538	10995	10/25/23	16:55	10/25/23	17:16	-30	-15				X	-03
VP-2 (Wt. Watchers unit)	SV	11249	02882	10/25/23	17:05	10/25/23	17:32	-27	-9				X	-04
Pilgrim Cleaners 15	SV	22956	01029	10/25/23	12:20	10/25/23	17:54	-29	-4				X	-05

41671420
 Sample Comment

two boxes shipped loose

Two boxes shipped

Sample Receipt Checklist

Seal Present/Intact: Y N If Applicable

CSO Signed/Accurate: Y N VOA Zero Headspace: Y N

Bottles arrive intact: Y N Pres. Correct/Check: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

RA screen <0.5 mR/hr: Y N

Customer Remarks / Special Conditions / Possible Hazards:
***Dry cleaner VOCs = PCB, PCB, CisTrans 1,2-DCB, and Vinyl chloride**

Collected By: **SCS Engineers**
 Printed Name: **Robert Langdon**
 Signature: *[Signature]*

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company (Signature): *[Signature]* JA Date/Time: **10/10/23**

Relinquished by/Company (Signature): *[Signature]* SCS Date/Time: **10/27/23 1300**

Relinquished by/Company (Signature): *[Signature]* Date/Time: **10/28/23**

Received by/Company (Signature): *[Signature]* REL Date/Time: **10/13/23 SCS**

Received by/Company (Signature): *[Signature]* Date/Time: **10/28/23**

Tracking Number:
 Delivered by: In-Person Courier
 FedEX UPS Other

SCS Engineers - Madison, WI

Sample Delivery Group: L1681074
Samples Received: 11/22/2023
Project Number:
Description: Pilgrim Cleaners

Report To: Rob Langdon
2830 Dairy Drive
Madison, WI 53718-6751

Entire Report Reviewed By:



Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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VP-2 (PILGRIM UNIT) L1681074-02	7	⁴ Cn
VP-1 (WT WATCHERS UNIT) L1681074-03	8	⁵ Sr
Qc: Quality Control Summary	9	
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Al: Accreditations & Locations	15	
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		⁹ Sc

SAMPLE SUMMARY

PILGRIM-16 L1681074-01 Air

Collected by Robert Langdon
 Collected date/time 11/21/23 16:10
 Received date/time 11/22/23 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	1	11/26/23 16:30	11/26/23 16:30	DAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

VP-2 (PILGRIM UNIT) L1681074-02 Air

Collected by Robert Langdon
 Collected date/time 11/21/23 16:07
 Received date/time 11/22/23 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	1	11/26/23 23:34	11/26/23 23:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2179374	1	11/29/23 16:38	11/29/23 16:38	SDS	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

VP-1 (WT WATCHERS UNIT) L1681074-03 Air

Collected by Robert Langdon
 Collected date/time 11/21/23 15:45
 Received date/time 11/22/23 13:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2177610	1	11/27/23 00:13	11/27/23 00:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2179374	1	11/29/23 17:17	11/29/23 17:17	SDS	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	4.87	11.6		1	WG2177610
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2177610
Benzene	71-43-2	78.10	0.238	0.760	0.956	3.05		1	WG2177610
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2177610
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2177610
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2177610
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2177610
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2177610
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2177610
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2177610
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2177610
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2177610
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2177610
Chloromethane	74-87-3	50.50	0.343	0.708	ND	ND		1	WG2177610
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2177610
Cyclohexane	110-82-7	84.20	0.251	0.864	ND	ND		1	WG2177610
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2177610
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2177610
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2177610
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2177610
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2177610
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2177610
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2177610
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2177610
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	8.68	34.4		1	WG2177610
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	1.04	4.12		1	WG2177610
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2177610
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2177610
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2177610
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2177610
Ethanol	64-17-5	46.10	0.883	1.66	86.1	162		1	WG2177610
Ethylbenzene	100-41-4	106	0.278	1.21	0.552	2.39		1	WG2177610
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.973	4.78		1	WG2177610
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	1.31	7.36		1	WG2177610
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	22.9	113		1	WG2177610
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2177610
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2177610
Heptane	142-82-5	100	0.347	1.42	ND	ND		1	WG2177610
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2177610
n-Hexane	110-54-3	86.20	0.687	2.42	ND	ND		1	WG2177610
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2177610
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2177610
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2177610
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	ND	ND		1	WG2177610
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2177610
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2177610
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2177610
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2177610
2-Propanol	67-63-0	60.10	0.880	2.16	5.47	13.4		1	WG2177610
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2177610
Styrene	100-42-5	104	0.263	1.12	ND	ND		1	WG2177610
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2177610
Tetrachloroethylene	127-18-4	166	0.271	1.84	60.5	411		1	WG2177610
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2177610
Toluene	108-88-3	92.10	0.290	1.09	1.92	7.23		1	WG2177610
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2177610



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2177610
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2177610
Trichloroethylene	79-01-6	131	0.227	1.22	1.41	7.55		1	WG2177610
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	1.26	6.18		1	WG2177610
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.327	1.60		1	WG2177610
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2177610
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2177610
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2177610
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2177610
Xylenes, Total	1330-20-7	106.16	0.450	1.95	3.29	14.3		1	WG2177610
m&p-Xylene	1330-20-7	106	0.450	1.95	2.38	10.3		1	WG2177610
o-Xylene	95-47-6	106	0.276	1.20	0.910	3.95		1	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2177610

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	15.6	61.8		1	WG2179374
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	2.65	10.5		1	WG2177610
Tetrachloroethylene	127-18-4	166	0.271	1.84	0.368	2.50		1	WG2177610
Trichloroethylene	79-01-6	131	0.227	1.22	6.55	35.1		1	WG2179374
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.3				WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.5				WG2179374

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2177610
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2177610
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2177610
Trichloroethylene	79-01-6	131	0.227	1.22	2.08	11.1		1	WG2179374
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.1				WG2177610
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.9				WG2179374

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4005956-3 11/26/23 10:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	0.459	U	0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4005956-3 11/26/23 10:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.259
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	U		0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	98.8			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005956-1 11/26/23 09:04 • (LCSD) R4005956-2 11/26/23 09:44

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.34	3.37	89.1	89.9	70.0-130			0.894	25
Allyl chloride	3.75	3.20	3.24	85.3	86.4	70.0-130			1.24	25
Benzene	3.75	3.48	3.48	92.8	92.8	70.0-130			0.000	25
Benzyl Chloride	3.75	3.41	3.60	90.9	96.0	70.0-152			5.42	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005956-1 11/26/23 09:04 • (LCSD) R4005956-2 11/26/23 09:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.44	3.43	91.7	91.5	70.0-130			0.291	25
Bromoform	3.75	3.34	3.33	89.1	88.8	70.0-130			0.300	25
Bromomethane	3.75	3.36	3.49	89.6	93.1	70.0-130			3.80	25
1,3-Butadiene	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
Carbon disulfide	3.75	3.36	3.40	89.6	90.7	70.0-130			1.18	25
Carbon tetrachloride	3.75	3.46	3.47	92.3	92.5	70.0-130			0.289	25
Chlorobenzene	3.75	3.50	3.53	93.3	94.1	70.0-130			0.853	25
Chloroethane	3.75	3.33	3.36	88.8	89.6	70.0-130			0.897	25
Chloroform	3.75	3.46	3.50	92.3	93.3	70.0-130			1.15	25
Chloromethane	3.75	3.37	3.39	89.9	90.4	70.0-130			0.592	25
2-Chlorotoluene	3.75	3.31	3.39	88.3	90.4	70.0-130			2.39	25
Cyclohexane	3.75	3.49	3.51	93.1	93.6	70.0-130			0.571	25
Dibromochloromethane	3.75	3.44	3.44	91.7	91.7	70.0-130			0.000	25
1,2-Dibromoethane	3.75	3.49	3.48	93.1	92.8	70.0-130			0.287	25
1,2-Dichlorobenzene	3.75	3.22	3.41	85.9	90.9	70.0-130			5.73	25
1,3-Dichlorobenzene	3.75	3.20	3.38	85.3	90.1	70.0-130			5.47	25
1,4-Dichlorobenzene	3.75	3.27	3.44	87.2	91.7	70.0-130			5.07	25
1,2-Dichloroethane	3.75	3.43	3.41	91.5	90.9	70.0-130			0.585	25
1,1-Dichloroethane	3.75	3.48	3.49	92.8	93.1	70.0-130			0.287	25
1,1-Dichloroethene	3.75	3.42	3.51	91.2	93.6	70.0-130			2.60	25
cis-1,2-Dichloroethene	3.75	3.48	3.51	92.8	93.6	70.0-130			0.858	25
trans-1,2-Dichloroethene	3.75	3.46	3.50	92.3	93.3	70.0-130			1.15	25
1,2-Dichloropropane	3.75	3.49	3.46	93.1	92.3	70.0-130			0.863	25
cis-1,3-Dichloropropene	3.75	3.46	3.43	92.3	91.5	70.0-130			0.871	25
trans-1,3-Dichloropropene	3.75	3.47	3.48	92.5	92.8	70.0-130			0.288	25
1,4-Dioxane	3.75	3.59	3.57	95.7	95.2	70.0-140			0.559	25
Ethanol	3.75	3.30	3.32	88.0	88.5	55.0-148			0.604	25
Ethylbenzene	3.75	3.46	3.44	92.3	91.7	70.0-130			0.580	25
4-Ethyltoluene	3.75	3.27	3.46	87.2	92.3	70.0-130			5.65	25
Trichlorofluoromethane	3.75	3.88	3.76	103	100	70.0-130			3.14	25
Dichlorodifluoromethane	3.75	3.43	3.40	91.5	90.7	64.0-139			0.878	25
1,1,2-Trichlorotrifluoroethane	3.75	3.43	3.44	91.5	91.7	70.0-130			0.291	25
1,2-Dichlorotetrafluoroethane	3.75	3.51	3.47	93.6	92.5	70.0-130			1.15	25
Heptane	3.75	3.48	3.53	92.8	94.1	70.0-130			1.43	25
Hexachloro-1,3-butadiene	3.75	3.30	3.42	88.0	91.2	70.0-151			3.57	25
n-Hexane	3.75	3.47	3.53	92.5	94.1	70.0-130			1.71	25
Isopropylbenzene	3.75	3.41	3.42	90.9	91.2	70.0-130			0.293	25
Methylene Chloride	3.75	3.17	3.27	84.5	87.2	70.0-130			3.11	25
Methyl Butyl Ketone	3.75	3.54	3.61	94.4	96.3	70.0-149			1.96	25
2-Butanone (MEK)	3.75	3.43	3.52	91.5	93.9	70.0-130			2.59	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4005956-1 11/26/23 09:04 • (LCSD) R4005956-2 11/26/23 09:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.65	3.66	97.3	97.6	70.0-139			0.274	25
Methyl methacrylate	3.75	3.38	3.37	90.1	89.9	70.0-130			0.296	25
MTBE	3.75	3.49	3.55	93.1	94.7	70.0-130			1.70	25
Naphthalene	3.75	3.51	3.67	93.6	97.9	70.0-159			4.46	25
2-Propanol	3.75	3.21	3.23	85.6	86.1	70.0-139			0.621	25
Propene	3.75	3.40	3.34	90.7	89.1	64.0-144			1.78	25
Styrene	3.75	3.42	3.42	91.2	91.2	70.0-130			0.000	25
1,1,2,2-Tetrachloroethane	3.75	3.16	3.28	84.3	87.5	70.0-130			3.73	25
Tetrachloroethylene	3.75	3.44	3.44	91.7	91.7	70.0-130			0.000	25
Tetrahydrofuran	3.75	3.56	3.65	94.9	97.3	70.0-137			2.50	25
Toluene	3.75	3.46	3.46	92.3	92.3	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	3.39	3.57	90.4	95.2	70.0-160			5.17	25
1,1,1-Trichloroethane	3.75	3.45	3.49	92.0	93.1	70.0-130			1.15	25
1,1,2-Trichloroethane	3.75	3.39	3.42	90.4	91.2	70.0-130			0.881	25
Trichloroethylene	3.75	3.44	3.47	91.7	92.5	70.0-130			0.868	25
1,2,4-Trimethylbenzene	3.75	3.36	3.57	89.6	95.2	70.0-130			6.06	25
1,3,5-Trimethylbenzene	3.75	3.39	3.57	90.4	95.2	70.0-130			5.17	25
2,2,4-Trimethylpentane	3.75	3.58	3.67	95.5	97.9	70.0-130			2.48	25
Vinyl chloride	3.75	3.34	3.47	89.1	92.5	70.0-130			3.82	25
Vinyl Bromide	3.75	3.76	3.45	100	92.0	70.0-130			8.60	25
Vinyl acetate	3.75	3.48	3.44	92.8	91.7	70.0-130			1.16	25
Xylenes, Total	11.3	10.6	10.5	93.8	92.9	70.0-130			0.948	25
m&p-Xylene	7.50	7.11	7.07	94.8	94.3	70.0-130			0.564	25
o-Xylene	3.75	3.48	3.47	92.8	92.5	70.0-130			0.288	25
(S) 1,4-Bromofluorobenzene				98.1	97.5	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4006000-3 11/29/23 10:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.261
Trichloroethylene	U		0.0680	0.227
<i>(S) 1,4-Bromofluorobenzene</i>	96.1			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4006000-1 11/29/23 09:09 • (LCSD) R4006000-2 11/29/23 09:48

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	3.57	3.63	95.2	96.8	70.0-130			1.67	25
Trichloroethylene	3.75	3.61	3.66	96.3	97.6	70.0-130			1.38	25
<i>(S) 1,4-Bromofluorobenzene</i>				97.7	97.8	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

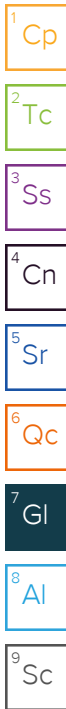
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: **SCS Engineers - Madison, WI**
 Street Address: **2830 Dairy Drive**
Madison, WI 53718-6751
 City, State Zip:
 Customer Project #:

Contact/Report To: **Rob Langdon**
 Phone #: **608-224-2830**
 E-Mail: **rlangdon@scsengineers.com**
 Cc E-Mail:
 Invoice to: **SAME**
 Invoice E-Mail: **SAME**



Scan QR code for instructions

J076

Project Name: **Pilgrim Cleaners**
 Site Collection Info/Facility ID (as applicable):
SCSENGMWI-PILGRIM

Purchase Order # (if applicable): **25211372, 21**
 Quote #:
 State origin of sample(s): **WI**

Field Information

Analyses Requested

11/19/23
 Proj. Manager:
3828 - Jennifer A McCurdy
 AcctNum / Client ID:
SCSENGMWI
 Table #:
 Profile / Template: **T226997**
 Prelog / Bottle Ord. ID: **P1036683**

Data Deliverables:
 Level II Level III Level IV
 EQUIS
 Other

Regulatory Program (CAA, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 2 Day 3 day 5 day Other
 Date Results Requested: **standard**
 Permit # as applicable:
 Units for Reporting: **ug/m³ PPBV mg/m³ PPMV**

Canister Pressure / Vacuum PUF / FILTER

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)
				Date	Time	Date	Time					
11/13/23 RRW SVB Pilgrim -16	SV	22704	1523	11/13	1605	11/13	1610	-29	-65			
VP-2 (Pilgrim unit)	SV	24258	11920	11/13	1540	11/13	1607	-29	-6			
VP-1 (Wt. Watchers unit)	SV	9355	02824	11/13	1516	11/13	1515	-29	-6			

TO-15 Summa

UG81074
 Sample Comment
01 Full Vac list
02 Short List *
03 Short List *

Sample Receipt Checklist
 CO2 Seal Present/Intact: Y N
 CO₂ Signed/Accurate: Y N Size: **1** LL **2** SL **1.4L**
 Bottles arrive intact: Y N Tag Color: **G** **W** **P** **B**
 Connect bottles used: Y N Tubing: **Shunt**

TWO BOXES SHIPPED BACK

Customer Remarks / Special Conditions / Possible Hazards:
***short list = per cis & trans 12 DE PCB and vinyl chloride.**

Collected By:
 Printed Name: **Robert Langdon**
 Signature: **Robert Langdon**
 Received by Company: (Signature) **Robert Langdon**

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by Company: (Signature) **Robert Langdon**
 Date/Time: **11/13/23 1600**
 Relinquished by Company: (Signature)
 Date/Time:
 Relinquished by Company: (Signature)
 Date/Time:
 Relinquished by Company: (Signature)
 Date/Time:

Received by Company: (Signature)
 Date/Time:
 Received by Company: (Signature)
 Date/Time:
 Received by Company: (Signature)
 Date/Time:
 Received by Company: (Signature)
 Date/Time:

Tracking Number:
 Delivered by: In-Person Courier
 FedEX UPS Other



ANALYTICAL REPORT

January 15, 2024

Revised Report

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

SCS Engineers - Madison, WI

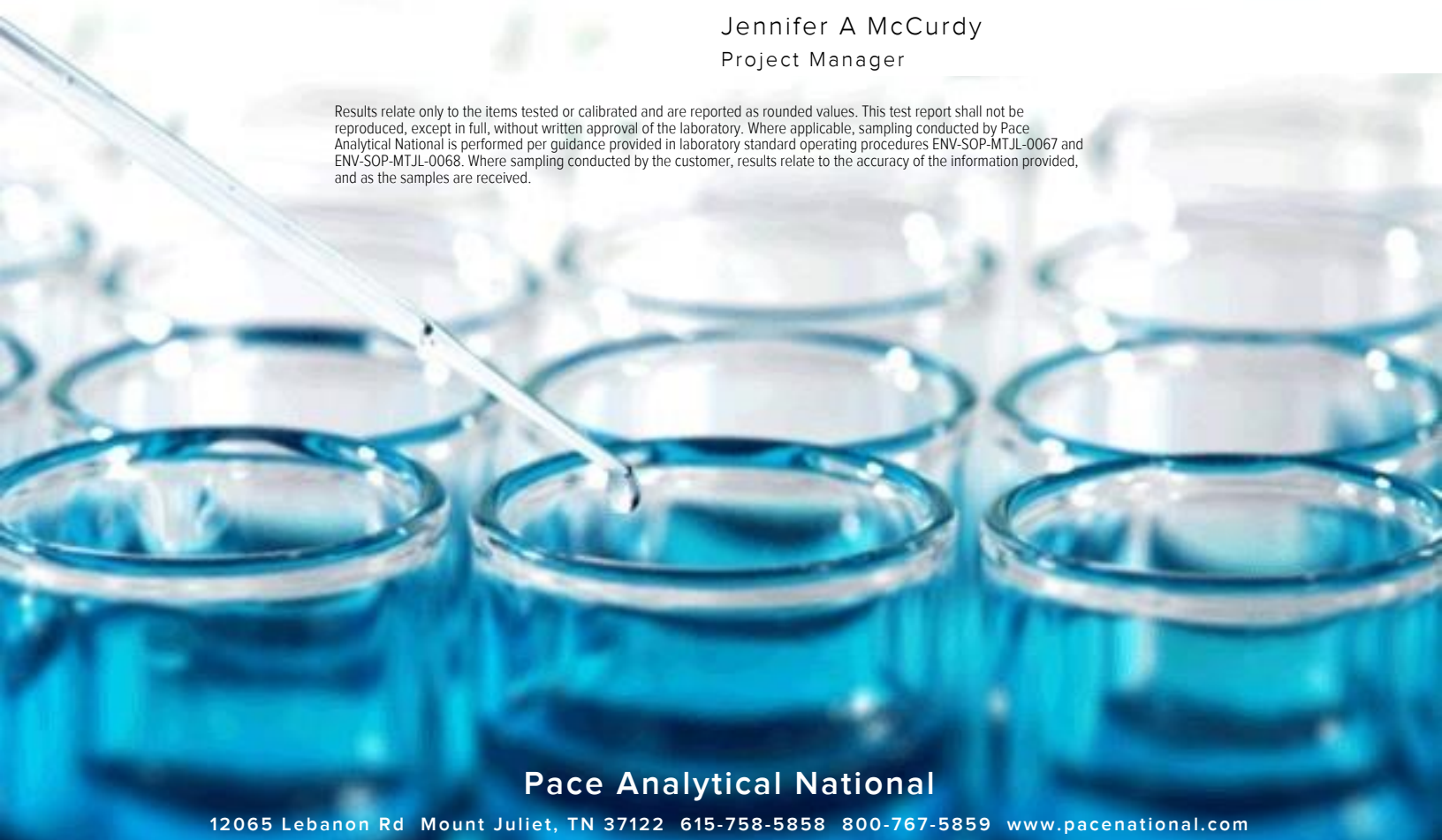
Sample Delivery Group: L1694581
 Samples Received: 01/09/2024
 Project Number: 25211372.21
 Description: Pilgrim Cleaners

Report To: Rob Langdon
 2830 Dairy Drive
 Madison, WI 53718-6751

Entire Report Reviewed By: *Jennifer McCurdy*

Jennifer A McCurdy
Project Manager












Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

PILGRIM CLEANERS-17 L1694581-01 Air

Collected by: Ethan Schaefer
Collected date/time: 01/08/24 12:37
Received date/time: 01/09/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2205520	1	01/11/24 16:17	01/11/24 16:17	GH	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

Report Revision History

Level II Report - Version 1: 01/15/24 15:42

Project Narrative

revise to include all compounds and correct Sample ID per client's email. 01/15/24 JM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	7.30	17.3		1	WG2205520
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2205520
Benzene	71-43-2	78.10	0.238	0.760	0.385	1.23		1	WG2205520
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2205520
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2205520
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2205520
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2205520
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2205520
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2205520
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2205520
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2205520
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2205520
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2205520
Chloromethane	74-87-3	50.50	0.343	0.708	0.401	0.828		1	WG2205520
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2205520
Cyclohexane	110-82-7	84.20	0.251	0.864	ND	ND		1	WG2205520
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2205520
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2205520
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2205520
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2205520
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2205520
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2205520
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2205520
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2205520
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	3.09	12.2		1	WG2205520
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	0.360	1.43		1	WG2205520
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2205520
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2205520
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2205520
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2205520
Ethanol	64-17-5	46.10	0.883	1.66	160	302	E	1	WG2205520
Ethylbenzene	100-41-4	106	0.278	1.21	0.467	2.02		1	WG2205520
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2205520
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	0.650	3.65		1	WG2205520
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	8.53	42.2		1	WG2205520
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2205520
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2205520
Heptane	142-82-5	100	0.347	1.42	0.358	1.46		1	WG2205520
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2205520
n-Hexane	110-54-3	86.20	0.687	2.42	ND	ND		1	WG2205520
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2205520
Methylene Chloride	75-09-2	84.90	0.326	1.13	1.16	4.03		1	WG2205520
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2205520
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	ND	ND		1	WG2205520
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2205520
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2205520
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2205520
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2205520
2-Propanol	67-63-0	60.10	0.880	2.16	19.9	48.9		1	WG2205520
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2205520
Styrene	100-42-5	104	0.263	1.12	ND	ND		1	WG2205520
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2205520
Tetrachloroethylene	127-18-4	166	0.271	1.84	5.34	36.3		1	WG2205520
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2205520
Toluene	108-88-3	92.10	0.290	1.09	2.61	9.83		1	WG2205520
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2205520

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2205520
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2205520
Trichloroethylene	79-01-6	131	0.227	1.22	0.320	1.71		1	WG2205520
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.365	1.79		1	WG2205520
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2205520
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2205520
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2205520
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2205520
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2205520
Xylenes, Total	1330-20-7	106.16	0.450	1.95	1.86	8.08		1	WG2205520
m&p-Xylene	179601-23-1	106	0.450	1.95	1.37	5.94		1	WG2205520
o-Xylene	95-47-6	106	0.276	1.20	0.494	2.14		1	WG2205520
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.8				WG2205520

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4022247-3 01/11/24 11:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	0.272	U	0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4022247-3 01/11/24 11:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.259
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	U		0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	99.4			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4022247-1 01/11/24 09:29 • (LCSD) R4022247-2 01/11/24 10:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.38	3.50	90.1	93.3	70.0-130			3.49	25
Allyl chloride	3.75	3.42	3.46	91.2	92.3	70.0-130			1.16	25
Benzene	3.75	3.75	3.76	100	100	70.0-130			0.266	25
Benzyl Chloride	3.75	3.61	3.66	96.3	97.6	70.0-152			1.38	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4022247-1 01/11/24 09:29 • (LCSD) R4022247-2 01/11/24 10:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.68	3.74	98.1	99.7	70.0-130			1.62	25
Bromoform	3.75	3.75	3.78	100	101	70.0-130			0.797	25
Bromomethane	3.75	3.56	3.50	94.9	93.3	70.0-130			1.70	25
1,3-Butadiene	3.75	3.21	3.17	85.6	84.5	70.0-130			1.25	25
Carbon disulfide	3.75	3.54	3.50	94.4	93.3	70.0-130			1.14	25
Carbon tetrachloride	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
Chlorobenzene	3.75	3.82	3.87	102	103	70.0-130			1.30	25
Chloroethane	3.75	3.32	3.19	88.5	85.1	70.0-130			3.99	25
Chloroform	3.75	3.63	3.66	96.8	97.6	70.0-130			0.823	25
Chloromethane	3.75	3.38	3.37	90.1	89.9	70.0-130			0.296	25
2-Chlorotoluene	3.75	3.64	3.71	97.1	98.9	70.0-130			1.90	25
Cyclohexane	3.75	3.73	3.67	99.5	97.9	70.0-130			1.62	25
Dibromochloromethane	3.75	3.79	3.79	101	101	70.0-130			0.000	25
1,2-Dibromoethane	3.75	3.84	3.89	102	104	70.0-130			1.29	25
1,2-Dichlorobenzene	3.75	3.65	3.72	97.3	99.2	70.0-130			1.90	25
1,3-Dichlorobenzene	3.75	3.72	3.76	99.2	100	70.0-130			1.07	25
1,4-Dichlorobenzene	3.75	3.79	3.79	101	101	70.0-130			0.000	25
1,2-Dichloroethane	3.75	3.64	3.73	97.1	99.5	70.0-130			2.44	25
1,1-Dichloroethane	3.75	3.70	3.71	98.7	98.9	70.0-130			0.270	25
1,1-Dichloroethene	3.75	3.70	3.64	98.7	97.1	70.0-130			1.63	25
cis-1,2-Dichloroethene	3.75	3.53	3.71	94.1	98.9	70.0-130			4.97	25
trans-1,2-Dichloroethene	3.75	3.69	3.64	98.4	97.1	70.0-130			1.36	25
1,2-Dichloropropane	3.75	3.62	3.62	96.5	96.5	70.0-130			0.000	25
cis-1,3-Dichloropropene	3.75	3.76	3.79	100	101	70.0-130			0.795	25
trans-1,3-Dichloropropene	3.75	3.75	3.79	100	101	70.0-130			1.06	25
1,4-Dioxane	3.75	3.62	3.65	96.5	97.3	70.0-140			0.825	25
Ethanol	3.75	3.52	3.30	93.9	88.0	55.0-148			6.45	25
Ethylbenzene	3.75	3.63	3.69	96.8	98.4	70.0-130			1.64	25
4-Ethyltoluene	3.75	3.78	3.76	101	100	70.0-130			0.531	25
Trichlorofluoromethane	3.75	3.71	3.68	98.9	98.1	70.0-130			0.812	25
Dichlorodifluoromethane	3.75	3.75	3.51	100	93.6	64.0-139			6.61	25
1,1,2-Trichlorotrifluoroethane	3.75	3.76	3.70	100	98.7	70.0-130			1.61	25
1,2-Dichlorotetrafluoroethane	3.75	3.91	3.89	104	104	70.0-130			0.513	25
Heptane	3.75	3.41	3.47	90.9	92.5	70.0-130			1.74	25
Hexachloro-1,3-butadiene	3.75	3.69	3.73	98.4	99.5	70.0-151			1.08	25
n-Hexane	3.75	3.40	3.39	90.7	90.4	70.0-130			0.295	25
Isopropylbenzene	3.75	3.74	3.71	99.7	98.9	70.0-130			0.805	25
Methylene Chloride	3.75	3.44	3.50	91.7	93.3	70.0-130			1.73	25
Methyl Butyl Ketone	3.75	3.57	3.56	95.2	94.9	70.0-149			0.281	25
2-Butanone (MEK)	3.75	3.85	3.93	103	105	70.0-130			2.06	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4022247-1 01/11/24 09:29 • (LCSD) R4022247-2 01/11/24 10:18

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.57	3.49	95.2	93.1	70.0-139			2.27	25
Methyl methacrylate	3.75	3.64	3.49	97.1	93.1	70.0-130			4.21	25
MTBE	3.75	3.70	3.67	98.7	97.9	70.0-130			0.814	25
Naphthalene	3.75	3.84	3.85	102	103	70.0-159			0.260	25
2-Propanol	3.75	3.25	3.23	86.7	86.1	70.0-139			0.617	25
Propene	3.75	3.28	3.25	87.5	86.7	64.0-144			0.919	25
Styrene	3.75	3.79	3.70	101	98.7	70.0-130			2.40	25
1,1,2,2-Tetrachloroethane	3.75	3.72	3.68	99.2	98.1	70.0-130			1.08	25
Tetrachloroethylene	3.75	3.80	3.83	101	102	70.0-130			0.786	25
Tetrahydrofuran	3.75	3.34	3.33	89.1	88.8	70.0-137			0.300	25
Toluene	3.75	3.69	3.68	98.4	98.1	70.0-130			0.271	25
1,2,4-Trichlorobenzene	3.75	3.79	3.88	101	103	70.0-160			2.35	25
1,1,1-Trichloroethane	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
1,1,2-Trichloroethane	3.75	3.76	3.75	100	100	70.0-130			0.266	25
Trichloroethylene	3.75	3.74	3.78	99.7	101	70.0-130			1.06	25
1,2,4-Trimethylbenzene	3.75	3.68	3.69	98.1	98.4	70.0-130			0.271	25
1,3,5-Trimethylbenzene	3.75	3.66	3.69	97.6	98.4	70.0-130			0.816	25
2,2,4-Trimethylpentane	3.75	3.52	3.62	93.9	96.5	70.0-130			2.80	25
Vinyl chloride	3.75	3.48	3.43	92.8	91.5	70.0-130			1.45	25
Vinyl Bromide	3.75	3.37	3.38	89.9	90.1	70.0-130			0.296	25
Vinyl acetate	3.75	3.74	3.81	99.7	102	70.0-130			1.85	25
Xylenes, Total	11.3	11.0	11.2	97.3	99.1	70.0-130			1.80	25
m&p-Xylene	7.50	7.41	7.51	98.8	100	70.0-130			1.34	25
o-Xylene	3.75	3.63	3.67	96.8	97.9	70.0-130			1.10	25
(S) 1,4-Bromofluorobenzene				98.4	98.2	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

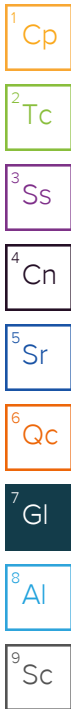
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name: **SCS Engineers - Madison, WI**
 Street Address: **2830 Dairy Drive**
Madison, WI 53718-6751
 City, State Zip: **Madison, WI**
 Customer Project #: **25211372.21**
 Project Name: **Pilgrim Cleaners**
 Site Collection Info/Facility ID (as applicable): **SCSENGMWI-PILGRIM**
 Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET

Contact/Report To: **Rob Langdon**
 Phone #: **608-224-2830**
 E-Mail: **rlangdon@scsengineers.com**
 Cc E-Mail:
 Invoice to:
 Invoice E-Mail:
 Purchase Order # (if applicable):
 Quote #:
 State origin of sample(s): **WI**



Scan QR code for instructions

H228

Data Deliverables:
 [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other _____
 Regulatory Program (CAA, RCRA, etc.) as applicable:
 Rush (Pre-approval required): 2 Day 3 day 5 day Other _____
 Date Results Requested:
 Permit # as applicable:
 Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested
AN 1/2/24
 Proj. Manager:
3828 - Jennifer A McCurdy
 AcctNum / Client ID:
SCSENGMWI
 Table #:
 Profile / Template: **T226997**
 Prelog / Bottle Ord. ID: **P1046724**
U1694581
 Sample Comment
-01

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)	TO-15 Summa
				Date	Time	Date	Time						
Pilgrim Cleaners - 15	SV	20699	22438	1/9/24	1232	1/8	1237	-28	-4				

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N Size: **1** Airs
 Bottles arrive intact: Y N Tag Color: **G** **W** **6L** **1.4L**
 Correct bottles used: Y N Tubing: Shunt B

Customer Remarks / Special Conditions / Possible Hazards:
 Collected By: **Ethan Schaefer**
 Printed Name:
 Signature:
 Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):
 Relinquished by/Company: (Signature) **SCS** Date/Time: **1/8/24 16:30** Received by/Company: (Signature)
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature)
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature)
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature)
 Tracking Number:
 Delivered by: In-Person Courier
 FedEX UPS Other
 Date/Time: **1/9/24 0900**

Attachment B
SVE System Air Emissions

**SVE System Air Emissions
Pilgrim Cleaners, Madison, Wisconsin**

Date	Notes	Time on	Velocity ⁽³⁾	Flow Rate	System	PCE ^(1,4)	Total PCE	PCE Rem. over	PCE	Total PCE	Total	Total VOCs	VOCs Rem.	VOC Removal	Total VOCs
		Hour Meter	⁽³⁾		Vacuum	^(1,4)		Period ⁽²⁾	Removal	Removed	VOCs ⁽⁴⁾		over Period ⁽⁵⁾	Rate	Removed
		hrs.	FPM	CFM	in. water	$\mu\text{g}/\text{m}^3$	lb./ft ³	lbs.	lbs./hr.	lbs.	$\mu\text{g}/\text{m}^3$	lb./ft ³	lbs.	lbs./hr.	lbs.
10/10/22		0.77	1690	85.3	-50	92,300	5.8E-06	-	-	0.0	124,335.0	7.8E-06	-	-	0.00
10/11/22		17.97	1650	83.2	-51	23,300	1.5E-06	0.310	0.0180	0.310	29,919.5	1.9E-06	0.413	0.0240	0.41
10/12/22		33.15	1520	76.7	-51	5,780	3.6E-07	0.063	0.0042	0.373	7,676.9	4.8E-07	0.082	0.0054	0.50
10/18/22		159.25	1550	78.2	-52	1,610	1.0E-07	0.136	0.0011	0.510	2,786.7	1.7E-07	0.193	0.0015	0.69
10/24/22	⁽⁶⁾	263.77	1840	92.8	-40	1,020	6.4E-08	0.048	0.0005	0.557	1,703.1	1.1E-07	0.082	0.0008	0.77
11/1/22		391.87	1500	75.7	-53	1,320	8.2E-08	0.042	0.0003	0.600	2,094.1	1.3E-07	0.069	0.0005	0.84
12/9/22		1,214.62	1480	74.7	-51	1,250	7.8E-08	0.296	0.0004	0.896	1,779.3	1.1E-07	0.445	0.0005	1.28
1/5/23		1,822.0	1,580	79.7	-47	258	1.6E-08	0.137	0.0002	1.032	517.23	3.2E-08	0.208	0.0003	1.49
2/3/23		2,494	1,700	85.8	-50	11.7	7.3E-10	0.029	0.0000	1.061	172.80	1.1E-08	0.074	0.0001	1.57
3/3/23		3,101	1,600	80.7	-55	50.6	3.2E-09	0.006	0.0000	1.067	431.69	2.7E-08	0.055	0.0001	1.62
4/3/23	⁽⁷⁾	3,687	1,490	75.2	-56	50.6	3.2E-09	0.008	0.0000	1.075	431.69	2.7E-08	0.071	0.0001	1.69
5/5/23		4,277	1,510	76.2	-58	58.8	3.7E-09	0.009	0.0000	1.085	457.13	2.9E-08	0.075	0.0001	1.77
6/5/23		4,800	1,620	81.7	-54	612	3.8E-08	0.054	0.0001	1.138	1,002.12	6.3E-08	0.117	0.0002	1.89
7/5/23		5,280	1,510	76.2	-56	43	2.7E-09	0.045	0.0001	1.183	996.64	6.2E-08	0.137	0.0003	2.02
7/7/23	⁽⁸⁾	5,314	1,510	76.2	-56	43	2.7E-09	0.000	0.0000	1.183	996.64	6.2E-08	0.010	0.0003	2.03
10/25/23		5,314	1,230	62.0	-50	2,300	1.4E-07	0.000	0.0000	1.183	2,653.45	1.7E-07	0.000	0.0000	2.03
11/21/23		5,956	1,230	62.0	-54	411	2.6E-08	0.202	0.0003	1.386	803.91	5.0E-08	0.258	0.0004	2.29
1/8/24		7,027	1,197	60.4	-56	36	2.3E-09	0.054	0.0001	1.440	495.26	3.1E-08	0.157	0.0001	2.45

Abbreviations:

SVE = soil vapor extraction

PCE = tetrachloroethylene

VOCs = volatile organic compounds

FPM = feet per minute

CFM = cubic feet per minute

hrs. = hours

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

lb./ft³ = pounds per cubic foot

lbs. = pounds

lbs./hr. = pounds per hour

Notes:

(1) PCE concentrations based on summa canister sample results of SVE system exhaust gas. If not detected, reporting or detection limits are used.

(2) PCE removed over period (lbs.) = PCE (lb./ft³) * Exhaust Flow Rate (CFM) * Time Between Periods (hrs.) * 60 (min/hr.).

(3) Velocity measured using hot-wire anemometer.

(4) VOCs concentrations based on summa canister sample results of SVE system exhaust gas. If not detected, reporting or detection limits are used.

(5) VOCs removed over period (lbs.) = VOCs (lb./ft³) * Exhaust Flow Rate (CFM) * Time Between Periods (hrs.) * 60 (min/hr.).

(6) The sample obtained on 10/24/22 was diluted by air intentionally bleed into the SVE system.

(7) 4/3/2023 SVE system exhaust sample was lost by the laboratory. Used 3/3/2023 result.

(8) SVE system was turned off from 7/7/2023 to October 25, 2023.

Last revision by: REL Date: 12/1/2024

Checked by: MBH Date: 2/1/2024

Proj Mgr. QA/QC: REL Date: 2/1/2024

I:\3722\Tables-General\[SVE System Summary.xls]SVE System

PCE in SVE System Exhaust Pilgrim Cleaners, Madison, Wisconsin

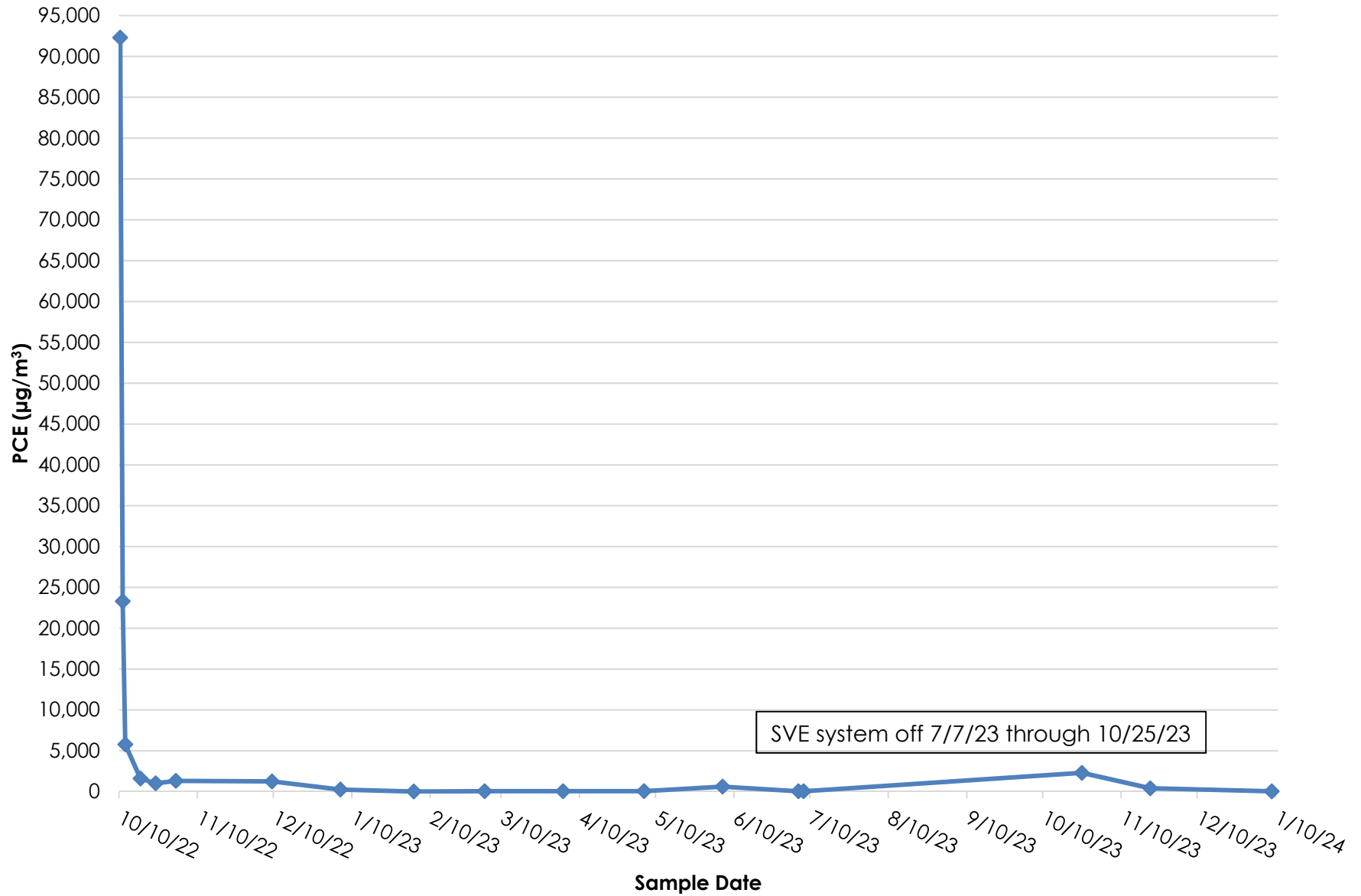


Figure 4
Total PCE Removed
Pilgrim Cleaners, Madison, Wisconsin

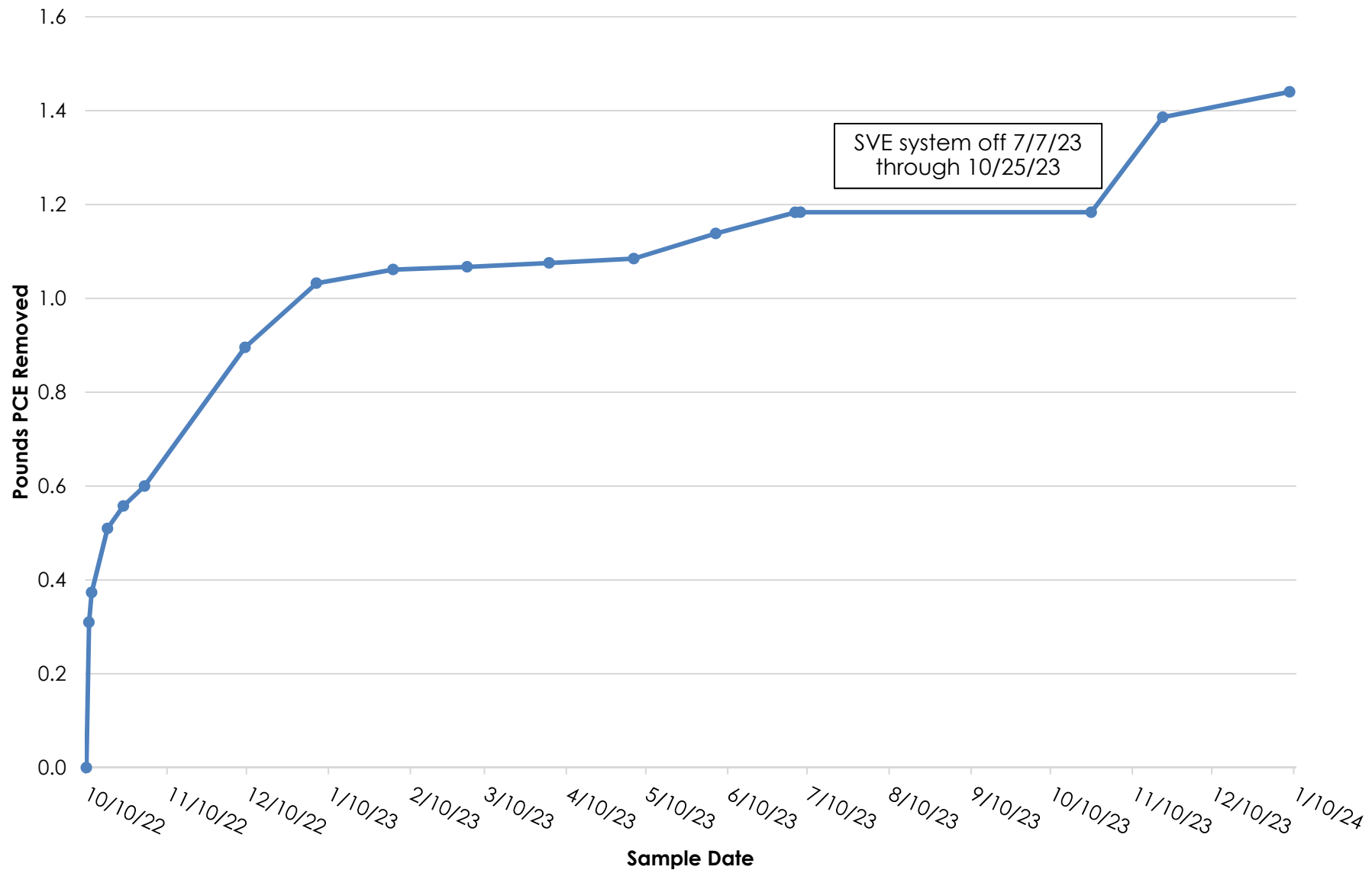


Figure 5
Total VOCs Removed
Pilgrim Cleaners, Madison, Wisconsin

