

September 12, 2023  
File No. 25211374.54

Ms. Cindy Koepke, PG, Hydrogeologist  
Remediation & Redevelopment Program  
Wisconsin Department of Natural Resources - South Central Region  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Subject: 2023 Site Investigation Update  
Laundry Land Cleaners (former), Northgate Shopping Center  
1131 N. Sherman Avenue, Madison, Wisconsin  
WDNR BRRTS #02-13-552183

Dear Ms. Koepke:

On behalf of Northgate Partnership, SCS Engineers (SCS) is providing the following update for the Dry Cleaner Environmental Response Fund (DERF) project at the Laundry Land Cleaners site (**Figure 1**). The following work was performed:

- Collected groundwater samples for volatile organic compound (VOC) analysis from select Laundry Land wells.
- Measured groundwater levels at selected monitoring wells.
- Sampled sub-slab vapors at 1111 and 1113 N. Sherman Avenue.

The results of the groundwater sampling show decreased concentrations of contaminants of concern at the downgradient extent of the groundwater plume.

The sub-slab vapor testing did not detect any contaminants of concern at concentrations that exceed vapor risk screening values.

Following are details of the sampling activities, findings, and recommendations for proceeding with the project.

## 1.0 GROUNDWATER MONITORING

SCS measured groundwater levels and sampled groundwater at monitoring wells MW6, MW6R, MW12R, and MW13 on June 26, 2023. In addition, SCS measured groundwater levels at MW2, PZ2, MW5, PZ5, MW10, and MW16 (**Figure 1**). These wells are the farthest downgradient wells at the site. Groundwater elevations are summarized in **Table 1**. Groundwater analytical data are summarized in **Table 2**. The laboratory analytical report is included in **Attachment A**. Groundwater vertical gradients are summarized on **Table 3**.

Purged groundwater was contained and taken to MMSD for disposal. Groundwater disposal documentation is provided in **Attachment B**.



## 1.1 GROUNDWATER FLOW

The groundwater monitoring network at the site includes water table wells that monitor the water table at depths ranging from about 8 to 14 feet below ground surface (bgs), and piezometers that extend to about 35 to 40 feet bgs. Both the water table wells and the piezometers are screened in sand and gravel that underlies a near surface layer of finer grained soil that is about 5 feet thick. Vertical gradients of groundwater flow in the sand and gravel are approximately zero (**Table 3**). Horizontal gradients are also very low. The horizontal gradient at the water table based on the June 26, 2023, groundwater levels was 0.0002. The groundwater flow at the water table is the southeast, consistent with previous approximate overall flow direction to the south.

## 1.2 GROUNDWATER QUALITY

MW6, MW6R, MW12R, and MW13 were selected for sampling in June 2023 because they are located at the downgradient edge of the VOC plume. The June 2023 results show that at all four well locations VOC concentrations in groundwater have decreased since the last sampling event in 2021. These results are consistent with the overall trend of groundwater quality following the treatment of groundwater with whey injection conducted in 2009 to 2015.

Groundwater analytical data indicate consistent overall decreases in tetrachloroethene (PCE) concentrations within the groundwater plume along with degradation of PCE into cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride daughter products. Whey injections began in December 2009, with the last full round of whey injections being completed in April 2015. Since 2015 VOC concentrations in groundwater have been fairly stable or decreasing with some minor fluctuation (**Table 2**.)

**MW6R** - The PCE concentration at MW6R was greater than the NR 140 preventive action limit (PAL) in 2020, and was greater than the NR 140 enforcement standard (ES) in 2021. In June 2023 the PCE concentration at MW6R decreased to slightly over the PAL.

**MW6** - The PCE concentration at MW6 has also decreased in recent sampling rounds. In 2010 the PCE concentration was over the PAL. The well was lost and not sampled again until 2020. In 2020 the PCE concentration at MW6 exceeded the ES, with the highest concentration detected to date at MW6. From 2020 to 2023, the PCE concentration decreased from 38.5 ug/L to 8.4 ug/L.

Wells MW6 and MW6R are located about 15 feet apart, and again show very localized variability within the groundwater plume.

**MW12/MW12R** - The PCE concentration at MW12/MW12R has shown minor fluctuations since 2009. In 2021 the PCE concentration was slightly over the ES, and in 2023 was less than the ES but over the PAL. The PCE concentration at MW12/MW12R has been fairly stable since 2009, with concentrations varying between slightly over the ES at a maximum of 6.1 ug/L in 2015, to a low of 2.93 ug/L in 2010, which is very close to the current concentration of 3.8 ug/L.

**MW13** - The PCE concentrations at MW13 varied from 7.7 ug/L in 2015 to a high of 21.5 ug/L in 2020, but in 2021 decreased to 13.8 ug/L, and in 2023 further decreased to 6.0 ug/L.

## 2.0 SUB-SLAB VAPOR SAMPLING

On July 25, 2023, SCS collected one sub-slab vapor sample at 1111 N. Sherman Avenue (The Cash Store) and two sub-slab vapor samples at 1113 N. Sherman Avenue (formerly The Tobacco Outlet, and currently unoccupied). **Figure 2** shows the sampling locations. The samples were collected consistent with Wisconsin Department of Natural Resources (WDNR) RR-800 vapor sampling guidance and were submitted to Eurofins Chicago, University Park, Illinois, for analysis PCE, TCE, cis-1,2-DCE, trans-1,2-dichloroethene, and vinyl chloride via method TO-15. The laboratory report is provided in **Attachment A**. The results of sub-slab sampling are summarized on **Table 4**.

**1111 N. Sherman Avenue** - This unit does not have a basement. A vapor pin was installed through the floor slab on the east side of the unit.

PCE was the only constituent detected in the 2016 sample (Cash Store) and also the 2023 sample (1111 EAST). Neither the 2016 PCE concentration of 510 parts per billion by volume (ppbv), nor the 2023 PCE concentration of 210 ppbv exceed the WDNR's small commercial sub-slab vapor risk screening level of 840 ppbv.

Based on these findings there does not appear to be a vapor intrusion risk for 1111 N. Sherman Avenue. SCS proposes that no further vapor assessment be required for the property.

**1113 N. Sherman Avenue** - This unit has a basement. The vapor pin used by SCS to collect a basement floor sub-slab sample in the unit in 2019 was found and used to collect the 2023 sample. A new vapor pin was installed through the basement floor slab on the north of the unit, in the same general area where a sub-slab vapor sample (SSB2) was collected by Pioneer Environmental, Inc. (Pioneer) in 2019. In 2019 Pioneer also collected a sub-slab vapor sample (SS1) at a location which is west of 2023 sample 1113 SOUTH, and an indoor air sample IAS-2 (**Figure 2**).

### Previous Sampling Results

PCE and TCE were detected in all three of the 2019 samples, however PCE was the only constituent detected at concentrations that exceed the WDNR's small commercial sub-slab vapor risk screening level of 840 ppbv. PCE was detected at 1060 ppbv in the 1113 South sample, and at 3060.7ppbv in the SSB-2 sample in 2019. The PCE concentration in sub-slab sample SS-1 was 516.4 ppbv which is less than the sub-slab vapor risk screening level. A very low concentration of PCE was the only constituent detected in the indoor air sample collected in 2019 (**Table 5**).

### 2023 Sampling Results

PCE and TCE were also detected in the 2023 samples. In addition very low, estimated concentrations of cis-1,2-DCE were detected in both samples. However, none of the concentrations exceed the WDNR's small commercial sub-slab vapor risk screening levels. PCE was detected at 47 ppbv in the 1113 SOUTH sample, and at 7.2 ppbv in the 1113 NORTH sample in 2023.

The 2023 TCE concentrations were very low. The TCE in sample 1113 SOUTH was an estimated concentration below the level of quantitation. TCE was also detected in the blanks associated with the 2023 samples.

Operation of the vapor mitigation system at 1131 N. Sherman is controlling vapor migration from the Laundry Land source area. Operation of the vapor mitigation system at 1117 N. Sherman Avenue, located directly adjacent 1113 N. Sherman, is providing additional control of vapor migration. The PCE reduction observed in the sub-slab vapors at 1113 N. Sherman Avenue is likely associated with the operation of the Laundry Land mitigation systems. In addition to the operation of the vapor mitigation systems, the groundwater quality has been improved greatly following the groundwater treatment conducted in 2009 to 2015.

Based on these findings there does not appear to be a vapor intrusion risk for 1113 N. Sherman Avenue. SCS proposes that no further vapor assessment be required for 1113 N. Sherman Avenue.

### 3.0 RECOMMENDATIONS

SCS recommends submittal of a case closure request with continuing obligations related to residual soil and groundwater contamination and vapor mitigation.

Please contact Betty at 608.212.6664 or [bsocha@scsengineers.com](mailto:bsocha@scsengineers.com) if you have comments or questions regarding this report.

Sincerely,



Betty J. Socha, PhD, PG  
Senior Project Manager  
SCS Engineers



Robert E. Langdon  
Project Manager  
SCS Engineers

BJS/AJR/REL

cc: Paul Roth, Northgate Partnership  
Nic Alexander, The Alexander Company (via e-mail)  
Rebecca Schultz, The Alexander Company (via e-mail)

Attachments: Table 1 – Water Level Summary  
Table 2 – Groundwater Analytical Results Summary – Chlorinated VOCs  
Table 3 – Vertical Hydraulic Gradients  
Table 4 – Sub-Slab Vapor Analytical Results Summary  
Table 5 – Indoor Air Analytical Results Summary

Figure 1 – Site Map with All Wells  
Figure 2 – Vapor Sampling Locations

Attachment A – Laboratory Analytical Reports  
Attachment B – Waste Disposal Documentation

## Tables

- 1 Water Level Summary
- 2 Groundwater Analytical Results Summary – Chlorinated VOCs
- 3 Vertical Hydraulic Gradients
- 4 Sub-Slab Vapor Analytical Results Summary
- 5 Indoor Air Analytical Results Summary

**Table 1. Water Level Summary**  
**Northgate Shopping Center aka Laundryland DERF / SCS Engineers Project #25211374.50**  
**Madison, Wisconsin**

Depth to Water in feet below top of well casing																											
Northgate Shopping Center Monitoring Wells																											
Monitoring Well Identification	MW1	MW2	MW3	MW4	MW5	MW6	MW6R	MW7	MW8	MW8R	MW10	MW11	MW12	MW12R	MW13	MW14	MW15	MW16	PZ1	PZ2	PZ3	PZ4	PZ5	PZ7	PZ9	PZ9A	PZ11
Measurement Date																											
11/02/09	12.82	13.04	12.55	13.16	11.04	6.82	NI	12.9	12.79	NI	12.05	14.20	13.79	NI	NI	NI	NI	NI	13.02	13.37	12.64	13.21	11.35	12.90	14.58	NI	14.31
11/02/10	12.84	13.02	12.46	13.07	11.07	6.85	NI	12.80	12.71	NI	12.02	14.11	13.73	NI	NI	NI	NI	NI	13.02	13.34	12.81	13.18	11.39	12.83	14.51	NI	14.24
03/01/11	NR	NR	NR	NR	NR	NR	NI	NR	NR	NI	NR	NR	NR	NI	NI	NI	NI	NI	NR	NR	NR	NR	NR	NR	NR	NR	NR
12/27/11	13.95	13.97	13.40	14.02	11.97	NR	NI	13.71	13.73	NI	12.93	15.15	14.63	NI	NI	NI	NI	NI	13.73	14.30	13.55	13.98	12.28	13.79	15.53	NI	15.25
09/10/13	NR	13.31	12.69	13.29	NR	NR	NI	NR	NR	NI	NR	NR	NR	NI	NI	NI	NI	NI	NR	13.62	12.93	13.51	NR	NR	NR	NR	NR
04/28/15	12.61	12.87	12.46	12.74	10.94	NR	NI	12.66	AB	13.81	12.02	14.04	13.53	NI	12.46	10.59	12.49	NI	12.89	13.17	12.49	13.01	11.29	12.66	14.40	13.01	14.12
04/25/16	11.85	12.08	11.60	12.20	10.16	NR	NI	11.94	AB	12.94	11.05	13.13	12.81	NI	12.27	9.51	11.75	NI	12.05	12.44	11.85	12.38	10.58	11.97	14.02	14.28	13.20
12/19/17	13.55	13.83	13.20	13.76	NR	NR	NI	13.55	AB	14.67	12.89	14.90	NR	NI	14.08	11.29	13.35	NI	13.75	14.10	13.42	13.95	12.09	13.61	15.25	17.20	14.99
7/17/19	11.58	12.83	11.18	11.83	9.76	NR	NI	11.49	AB	12.67	NR	12.80	NR	NI	12.07	8.94	11.07	NI	11.82	11.10	11.41	11.97	10.04	11.56	13.00	15.19	12.83
01/07/20	11.73	11.97	11.37	12.00	9.89	6.00	6.03	11.79	AB	12.81	NR	12.83	NR	NI	12.32	9.46	11.62	NI	11.95	12.25	11.37	12.12	10.18	11.82	13.30	15.11	12.85
04/27/2021 (See note 5)	12.97	13.20	12.61	13.22	10.97	6.98	7.01	12.91	AB	14.09	12.39	14.18	AB	13.66	13.45	10.78	12.71	13.64	13.22	13.56	12.70	13.36	11.26	12.95	14.68	16.72	14.20
6/26/2023	NR	14.07	NR	NR	11.83	7.84	7.89	NR	NR	NR	13.01	NR	NR	14.46	14.52	NR	NR	14.44	NR	14.35	NR	NR	12.11	NR	NR	NR	NR

Ground Water Elevation in feet above mean sea level (amsl)																											
Monitoring Well Identification	MW1	MW2	MW3	MW4	MW5	MW6	MW6R	MW7	MW8	MW8R	MW10	MW11	MW12	MW12R	MW13	MW14	MW15	MW16	PZ1	PZ2	PZ3	PZ4	PZ5	PZ7	PZ9	PZ9A	PZ11
Top of Casing Elevation (feet amsl)	862.83	863.08	862.48	863.09	860.87	856.83	856.87	862.78	--	863.95	<b>862.06</b>	864.08	--	863.54	863.21	860.74	862.63	863.47	863.08	863.36	862.50	863.20	861.13	862.82	864.54	864.73	864.10
Reference elevation for water levels measures on & after April 27, 2021.											862.26																
Old Top of Casing Elevation (feet amsl)	862.56	862.75	862.20	862.78	<b>860.57</b>	856.53	856.56	862.53	862.47	863.48	861.69	<b>863.71</b>	863.38	--	862.72	860.58	862.16	--	862.75	863.08	<b>862.11</b>	862.89	<b>860.88</b>	862.57	864.28	864.47	<b>863.83</b>
Measurement Date					860.77							863.91									862.33		861.08				864.03
11/02/09	849.74	849.71	849.65	849.62	849.73	849.71	NI	849.63	849.68	NI	849.64	849.71	849.59	NI	NI	NI	NI	NI	849.73	849.71	849.69	849.68	849.73	849.67	849.70	NI	849.72
11/02/10	849.72	849.73	849.74	849.71	849.70	849.68	NI	849.73	849.76	NI	849.67	849.80	849.65	NI	NI	NI	NI	NI	849.73	849.74	849.52	849.71	849.69	849.74	849.77	NI	849.79
03/01/11	NR	NR	NR	NR	NR	NR	NI	NR	NR	NI	NR	NR	NR	NI	NI	NI	NI	NI	NR	NR	NR	NR	NR	NR	NR	NR	NR
12/27/11	848.61	848.78	848.80	848.76	848.80	NR	NI	848.82	848.74	NI	848.76	848.76	848.75	NI	NI	NI	NI	NI	849.02	848.78	848.78	848.91	848.80	848.78	848.75	NI	848.78
09/10/13	NR	849.44	849.51	849.49	NR	NR	NI	NR	NR	NI	NR	NR	NR	NI	NI	NI	NI	NI	NR	849.46	849.40	849.38	NR	NR	NR	NI	NR
04/28/15	849.95	849.88	849.74	850.04	849.83	NR	NI	849.87	AB	849.67	849.67	849.87	849.85	NI	850.26	849.99	849.67	NI	849.86	849.91	849.84	849.88	849.79	849.91	849.88	851.46	849.91
04/25/16	850.71	850.67	850.60	850.58	850.61	NR	NI	850.59	AB	850.54	850.64	850.78	850.57	NI	850.45	851.07	850.41	NI	850.70	850.64	850.48	850.51	850.50	850.60	850.26	850.19	850.83
12/19/17	849.01	848.92	849.00	849.02	NR	NR	NI	848.98	AB	848.81	848.80	849.01	NR	NI	848.64	849.29	848.81	NI	849.00	848.98	848.91	848.94	848.99	848.96	849.03	847.27	849.04
7/17/19	850.98	849.92	851.02	850.95	851.01	NR	NI	851.04	AB	850.81	NR	851.11	NR	NI	850.65	851.64	851.09	NI	850.93	851.98	850.92	850.92	851.04	851.01	851.28	849.28	851.20
01/07/20	850.83	850.78	850.83	850.78	850.68	850.53	850.53	850.74	AB	850.67	NR	850.88	NR	NI	850.40	851.12	850.54	NI	850.80	850.83	850.74	850.77	850.70	850.75	850.98	849.36	850.98
04/27/2021 (See note 5)	849.86	849.88	849.87	849.87	849.90	849.85	849.86	849.87	AB	849.86	849.87	849.90	AB	849.88	849.76	849.96	849.92	849.83	849.86	849.8	849.80	849.84	849.87	849.87	849.86	848.01	849.90
6/26/2023	NR	849.01	NR	NR	849.04	848.99	848.98	NR	NR	NR	849.05	NR	NR	849.08	848.69	NR	NR	849.03	NR	849.01	NR	NR	849.02	NR	NR	NR	NR

Abbreviations:  
 NI = Not Installed  
 NR = Depth to water not measured  
 AB = Abandoned

- Notes:
- Monitoring wells were surveyed to mean sea level elevations using the previous Ayres Associates elevations.
  - MW5, PZ5, MW11, and PZ11 PVC casings were cut off 0.20 feet prior to groundwater level measurements on January 8, 2020; PZ3 PVC casing was cut off 0.022 feet prior to groundwater level measurement on January 7, 2020. Revised elevations shown in bold.
  - MW6R was installed on August 7, 2019; Missing well MW6 was found on January 7, 2020.
  - Top of PVC casings were re-surveyed on April 27, 2021, by Quam/SCS.
  - Groundwater levels in wells MW2, PZ2, PZ9, PZ9A, and MW16 were measured on April 28, 2021.
  - MW10 PVC casing was cut off 0.20 feet on May 3, 2021. Revised elevation is in bold.

Revised By: AJR, 7/10/2023  
 Checked By: LMH, 7/10/2023

**Table 2. Groundwater Analytical Results Summary - Chlorinated VOCs**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.50**  
 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
MW-1	8/21/2008	--	1.5	<0.50	<u>33</u>	<u>1.1</u>	<0.15	--
	10/1/2008	--	1.2	<0.50	<u>28</u>	<u>0.96</u>	<0.15	ND
	11/2/2009	--	3.62	<0.50	<u>24.2</u>	<u>0.99</u> J	<0.20	ND
	11/3/2010	(4)	3.37	<0.50	<u>27.4</u>	<u>2.61</u>	<0.20	ND
	12/27/2011	--	1.95	<0.50	<u>30</u>	<u>1.75</u>	<0.20	ND
	4/29/2015	(8)	2.9	<0.26	<u>9.4</u>	<u>0.58</u> J1	<0.18	Chloromethane 1.2
	4/25/2016	(9)	<u>8.7</u>	0.37 J1	<u>9.0</u>	<u>0.70</u> J1	<0.18	ND
	7/18/2019	(13)	0.75 J1	<1.1	<u>6.7</u>	<0.26	<0.17	ND
	1/7/2020	--	0.45 J1	<1.1	<u>8.0</u>	<0.26	<0.17	ND
	4/27/2021	--	<0.47	<0.53	<u>5.8</u>	<0.32	<0.17	ND
PZ-1	8/21/2008	--	2.5	<0.50	<u>2.0</u>	0.32	<u>1.0</u>	--
	10/1/2008	--	2.7	<0.50	<u>1.3</u>	0.40	<u>1.2</u>	ND
	11/2/2009	--	2.36	<0.50	0.37 J	<0.40	<u>0.57</u> J	ND
	11/3/2010	(4)	4.96	<0.50	<u>0.94</u> J	<u>0.62</u> J	<u>1.07</u>	ND
	12/28/2011	--	2.87	<0.50	<u>10</u>	<u>0.99</u> J	<0.20	ND
	4/29/2015	--	5.1	<0.26	<u>5.4</u>	<u>0.84</u> J1	<u>0.44</u> J1	ND
	4/25/2016	(10)	1.3	<0.26	<u>3.4</u>	0.41 J1	<0.18	ND
	12/20/2017	--	4.0	0.33 J1	<u>3.5</u>	0.48 J1	<u>1.3</u>	ND
	7/18/2019	(14)	4.0	<1.1	<u>1.1</u> J1	<0.26	<u>0.56</u> J1	ND
	1/7/2020	--	5.5	<1.1	<u>1.2</u>	0.31 J1	<u>0.55</u> J1	ND
	4/27/2021	--	3.8	<0.53	<u>1.3</u>	<0.32	<u>0.81</u> J1	ND
MW-2	8/21/2008	--	<u>190</u>	3.3	<u>940</u>	<u>66</u>	<0.15	Methylene Chloride <u>73</u>
	10/1/2008	--	<u>160</u>	<25	<u>920</u>	<u>56</u>	<7.5	--
	11/2/2009	--	<u>35.7</u> J	<25	<u>630</u>	<20	<10	ND
	11/3/2010	(4)	<u>39.5</u> J	<25	<u>542</u>	<20	<10	ND
	12/27/2011	--	<u>38.3</u> J	<25	<u>319</u>	<20	<10	ND
	9/10/2013	(7)	<u>92</u>	2.7	<u>500</u>	<u>41</u>	<u>0.25</u> *	ND
	4/29/2015	(8)	<u>34.1</u>	<2.6	<u>414</u>	<u>14.3</u>	<u>3.7</u> J1	ND
	4/25/2016	(10)	<u>69.0</u>	<1.0	<u>298</u>	<u>16.8</u>	<u>17.1</u>	ND
	12/19/2017	--	<u>29.2</u>	<1.0	<u>477</u>	<u>20.8</u>	<u>8.0</u>	ND
	7/18/2019	(13)	<u>26.0</u>	<4.4	<u>375</u>	<u>15.1</u>	<u>7.7</u>	ND
	1/7/2020	--	<u>33.4</u>	<1.1	<u>412</u>	<u>25</u>	<u>13.6</u>	1,1-Dichloroethene 0.31 J1
	4/28/2021	--	<u>25.0</u>	<2.1	<u>382</u>	<u>24.8</u>	<u>1.7</u> J1	ND
PZ-2	8/21/2008	--	2.5	<0.50	<u>5.9</u>	<u>0.58</u>	<0.15	--
	10/1/2008	--	4.0	<0.50	<u>22</u>	<u>1.0</u>	<0.15	ND
	11/2/2009	--	1.5	<0.50	<u>0.79</u> J	<0.40	<0.20	Chloromethane 0.90 J
	11/3/2010	(4)	2.05	<0.50	<u>24.4</u>	<u>1.80</u>	<0.20	ND
	12/27/2011	--	<u>23.2</u>	<2.50	<u>296</u>	<u>11.2</u>	<1.00	ND
	9/10/2013	(7)	<u>49</u>	0.92 *	<u>61</u>	<u>8.3</u>	<u>5.9</u>	ND
	4/29/2015	--	<u>74.2</u>	1.5	<u>41.8</u>	<u>11.4</u>	<u>63.0</u>	ND
	4/25/2016	(10)	<u>61.6</u>	0.87 J1	<u>1.3</u>	<u>11.2</u>	<u>39.8</u>	ND
	12/19/2017	--	<u>97.5</u>	2.4	<u>70.8</u>	<u>19.1</u>	<u>55.4</u>	1,1-Dichloroethene <u>1.3</u>

**Table 2. Groundwater Analytical Results Summary - Chlorinated VOCs**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.50**  
 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
PZ-2 (cont.)	7/18/2019	(13)	<u>67.1</u>	2.0 J1	<u>79.3</u>	<u>48.1</u>	<u>52.2</u>	Chloroethane 3.5 J1 1,1-Dichloroethene <u>2.0</u>
	7/18/2019 (DUP)	--	<u>67.7</u>	1.8 J1	<u>84.2</u>	<u>49.7</u>	<u>56.1</u>	Chloroethane 3.5 J1 1,1-Dichloroethene <u>2.4</u>
	1/7/2020	--	<u>65.4</u>	1.7 J1	<u>101</u>	<u>66.9</u>	<u>51.7</u>	Chloroethane 3.6 J1 1,1-Dichloroethene <u>2.1</u>
	4/28/2021	--	<u>59.8</u>	1.6	<u>67</u>	<u>87.9</u>	<u>69.7</u>	1,1-Dichloroethene <u>4.2</u>
MW-3	8/21/2008	--	<u>41</u>	2.0	<u>1,800</u>	<u>37</u>	<0.15	--
	10/1/2008	--	<u>89</u>	<25	<u>1,700</u>	<u>39</u>	<7.5	Methylene Chloride <u>72</u>
	11/2/2009	--	<u>88.3</u> J	<50	<u>1,360</u>	<u>57.6</u> J	<20	ND
	11/4/2010	(4)	<40	<50	<u>1,420</u>	<u>44.5</u> J	<20	ND
	12/27/2011	--	<40	<50	<u>895</u>	<40	<20	ND
	9/10/2013	(7)	4.6	0.44 *	<u>1,400</u>	<u>13</u>	<0.18	ND
	4/30/2015	(8)	<u>20.0</u>	<1.3	<u>515</u>	<u>12.7</u>	<0.88	ND
	4/26/2016	--	<u>52.0</u>	<1.3	<u>535</u>	<u>12.5</u>	<0.88	ND
	12/19/2017	--	<u>57.2</u>	<1.3	<u>555</u>	<u>30.3</u>	<u>5.3</u>	ND
	7/19/2019	--	<u>27.2</u>	<5.5	<u>422</u>	<u>19.0</u>	<0.87	ND
	1/7/2020	--	<u>49.5</u>	<1.1	<u>532</u>	<u>37.1</u>	<u>1.3</u>	1,1-Dichloroethene 0.48 J1
4/27/2021	--	<u>10.1</u>	<2.6	<u>405</u>	<u>16.0</u>	<0.87	ND	
PZ-3	8/21/2008	--	<u>9.2</u>	<0.5	<u>300</u>	<u>4.2</u>	<0.15	--
	10/1/2008	--	<u>9.1</u>	<5.0	<u>230</u>	<u>4.7</u>	<1.5	Methylene Chloride <u>15</u>
	11/2/2009	--	<u>23.4</u> J	<25	<u>344</u>	<20	<10	ND
	11/4/2010	(4)	<20	<25	<u>152</u>	<20	<10	ND
	12/27/2011	--	<u>11.2</u> J	<10	<u>178</u>	<8.00	<4.00	ND
	9/10/2013	(7)	<u>17</u>	<0.30	<u>48</u>	<u>3.4</u>	<u>2.6</u>	ND
	4/30/2015	(8)	<u>60.3</u>	0.95 J1	<u>123</u>	<u>7.5</u>	<u>45.7</u>	ND
	4/26/2016	--	<u>51.4</u>	1.1	<u>93.9</u>	<u>10.5</u>	<u>39.4</u>	1,1-Dichloroethene 0.58 J1 Chloroethane 0.91 J1
	12/19/2017	--	<u>52.3</u>	1.3	<u>256</u>	<u>35.9</u>	<u>37.3</u>	Chloroethane 2.4 1,1-Dichloroethene <u>3.1</u>
	7/19/2019	--	<u>37.2</u>	<2.2	<u>204</u>	<u>27.6</u>	<u>25.9</u>	1,1-Dichloroethene <u>2.2</u>
	1/7/2020	--	<u>37.7</u>	<1.1	<u>239</u>	<u>31.9</u>	<u>22.5</u>	1,1-Dichloroethene <u>2</u>
4/27/2021	--	<u>33.7</u>	<1.1	<u>223</u>	<u>39.9</u>	<u>11.5</u>	1,1-Dichloroethene <u>3.0</u>	
MW-4	8/21/2008	--	<u>2,300</u>	<u>35</u>	<u>4,900</u>	<u>200</u>	<7.5	--
	10/1/2008	--	<u>2,300</u>	<100	<u>4,600</u>	<u>200</u>	<30	Methylene Chloride <u>270</u>
	11/2/2009	(1)	<u>1,520</u>	<50	<u>3,170</u>	<u>144</u>	<20	ND
	11/2/2010	(4)	<u>4,200</u>	<u>52.4</u> J	<u>399</u>	<u>168</u>	<20	ND
	12/28/2011	--	<u>250</u>	<50	<30	<40	<u>1,330</u>	ND
	9/10/2013	(7)	<u>380</u>	14	<u>860</u>	<u>560</u>	<u>610</u>	1,1,2-Trichloroethane <u>0.60</u> * 1,1-Dichloroethene <u>46</u> 1,2-Dichlorobenzene 5.4 1,4-Dichlorobenzene 1.1 Tetrahydrofuran <u>10</u> *



**Table 2. Groundwater Analytical Results Summary - Chlorinated VOCs**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.50**  
 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
MW-4 (cont.)	4/29/2015	(8)	<u>37.2</u>	11.4	<u>15.3</u>	<u>2.7</u>	<u>135</u>	1,2-Dichlorobenzene 1.0 J1 Chloroethane 3.1
	4/26/2016	--	5.7	5.1	<1.2	<0.83	<u>340</u>	1,2-Dichlorobenzene 1.8 J1 Chloroethane 4.6
	12/20/2017	--	<u>11.5</u>	4.1	<u>1.0</u>	<u>1.1</u>	<u>85</u>	Chloroethane 3.1 1,2-Dichlorobenzene 2.7 1,4-Dichlorobenzene 0.60 J1
	7/17/2019	--	<u>128</u>	7.4	<u>13.3</u>	<u>64.9</u>	<u>126</u>	Chloroethane 7.6 1,2-Dichlorobenzene 2.5 1,1-Dichloroethene <u>4.9</u>
	1/7/2020	--	<u>139</u>	6.1	<u>120</u>	<u>123</u>	<u>137</u>	Chloroethane <u>5.0</u> 1,2-Dichlorobenzene <u>2.9</u> 1,1-Dichloroethene <u>6.9</u>
	1/7/2020 (Dup)	--	<u>146</u>	7.8	<u>64.1</u>	<u>83.3</u>	<u>180</u>	Chloroethane 5.2 1,2-Dichlorobenzene <u>2.8</u> 1,1-Dichloroethene <u>6.9</u>
	4/27/2021	--	<u>50.0</u>	2.6	<u>5.2</u>	<u>11.4</u>	<u>224</u>	Chloroethane 13.6 1,2-Dichlorobenzene 2.3 1,1-Dichloroethene <u>2.5</u>
PZ-4	8/21/2008	--	6.0	<0.5	<u>12</u>	<u>1.1</u>	<0.15	--
	10/1/2008	--	5.3	0.99	<u>13</u>	<u>1.5</u>	<0.15	ND
	11/2/2009	--	2.46	<0.50	<u>4.11</u>	<u>0.94</u> J	<0.20	Chloromethane 0.72 J
	11/2/2010	(4)	<u>11.4</u>	<0.50	<u>3.78</u>	<u>1.01</u> J	<0.20	Chloromethane 0.81 J
	12/28/2011	--	6.27	<0.50	<u>4.22</u>	<u>0.69</u> J	<0.20	ND
	9/10/2013	(7)	<u>8.6</u>	0.30 *	<u>110</u>	<u>6.0</u>	<u>2.4</u>	1,1-Dichloroethene 0.26 *
	4/29/2015	--	<u>7.7</u>	0.47 J1	<u>1.2</u>	<u>1.1</u>	<u>3.8</u>	ND
	4/26/2016	(12)	2.1	<0.26	<0.50	<u>0.57</u> J1	<u>0.27</u> J1	ND
	4/26/2016 (DUP)	--	2.0	<0.26	<0.50	0.38 J1	<0.18 J1	ND
	12/20/2017	--	<u>40.1</u>	0.98 J1	<u>5.5</u>	<u>7.30</u>	<u>15.9</u>	ND
	7/17/2019	(13)	<u>24.4</u>	<1.1	<u>3.1</u>	<u>5.7</u>	<u>18.5</u>	1,1-Dichloroethene <u>0.87</u> J1
	1/7/2020	--	<u>27.2</u>	<1.1	<u>3.9</u>	<u>12.2</u>	<u>16.5</u>	1,1-Dichloroethene <u>1.2</u>
4/27/2021	--	<u>22.5</u>	0.53 J1	<u>2.1</u>	<u>7.9</u>	<u>20.4</u>	1,1-Dichloroethene <u>1.4</u>	
MW-5	8/21/2008	--	<u>13</u>	<5.0	<u>190</u>	<u>11</u>	<1.5	--
	10/1/2008	--	5.9	<1.0	<u>110</u>	<u>7.1</u>	<0.3	Methylene Chloride <u>2.4</u>
	10/30/2009	--	<u>22.1</u>	<5.0	<u>186</u>	<u>18.7</u>	<2.0	ND
	11/2/2010	(4)	<u>7.26</u> J	<5.00	<u>175</u>	<u>11.1</u> J	<2.00	ND
	12/27/2011	--	<u>7.17</u> J	<5.00	<u>149</u>	<u>9.82</u> J	<2.00	ND
	4/30/2015	(8)	3.9	<0.26	<u>64.6</u>	<u>3.6</u>	<0.18	ND
	4/25/2016	(10)	2.6	<0.26	<u>84.4</u>	<u>4.5</u>	<0.18	ND
	4/25/2016 (DUP)	(10)	2.0	<0.26	<u>87.5</u>	<u>4.4</u>	<0.18	ND
	7/18/2019	--	1.4	<1.1	<u>79.8</u>	<u>3.3</u>	<0.17	ND
	1/8/2020	--	0.68 J1	<1.1	<u>77.6</u>	<u>2.5</u>	<0.17	ND
	4/27/2021	--	2.10	<0.53	<u>40.8</u>	<u>2.8</u>	<0.17	ND

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 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
PZ-5	8/21/2008	--	1.1	<0.5	<u>2.4</u>	0.27	<0.15	--
	10/1/2008	--	2.1	<0.5	<u>1.6</u>	<u>0.72</u>	<0.15	ND
	10/30/2009	--	1.6	<0.50	<u>0.98</u> J	<u>0.53</u>	<0.20	ND
	11/3/2010	(4)	1.37	<0.50	0.31 J	<0.40	<0.20	Chloromethane 0.41 J
	12/27/2011	--	2.60	<0.50	<0.30	0.41 J	<u>0.27</u> J	Dichlorodifluoromethane 0.41 J
	4/30/2015	--	2.1	<0.26	<u>1.3</u>	<u>0.98</u> J1	<u>0.28</u> J1	Dichlorodifluoromethane 0.27 J1
	4/26/2016	(10)	3.8	<0.26	<u>1.9</u>	<u>0.74</u> J1	<u>0.91</u> J1	ND
	12/20/2017	--	<u>7.7</u>	0.32 J1	<u>2.5</u>	<u>0.83</u> J1	<u>0.63</u> J1	ND
	7/18/2019	--	5.8	<1.1	<u>2.1</u>	<u>0.72</u> J1	<u>0.53</u> J1	ND
	1/8/2020	--	5.1	<1.1	<u>3.0</u>	<u>1.1</u>	<u>0.43</u> J1	ND
4/27/2021	--	4.0	<0.53	<u>2.3</u>	<u>0.74</u> J1	<0.17	ND	
MW-6**	10/1/2008	--	<0.40	<0.50	<u>1.8</u>	<0.15	<0.15	ND
	10/31/2008	--	<0.40	<0.50	<u>1.4</u>	<0.15	<0.15	ND
	10/30/2009	--	<0.40	<0.50	<u>2.53</u>	<0.40	<0.20	ND
	11/3/2010	(4)	<0.40 J	<0.50	<u>3.88</u>	<0.40	<0.20	Chloromethane 0.62 J
	1/8/2020	--	4.3	<1.1	<u>38.5</u>	<u>7.5</u>	<0.17	ND
	4/27/2021	--	<0.47	<0.53	<u>24.6</u>	<u>2.7</u>	<0.17	ND
	6/26/2023	--	<0.47	<0.53	<u>8.4</u>	<u>0.61</u> J1	<0.17	Chloromethane <u>13.5</u>
MW-6R	1/8/2020	--	3.9	<1.1	<u>3.2</u>	<u>2.0</u>	<u>4.4</u>	ND
	4/27/2021	--	<0.47	<0.53	<u>12.7</u>	<0.32	<0.17	ND
	4/27/2021 (DUP)	--	<0.47	<0.53	<u>16.4</u>	<0.32	<0.17	ND
	6/26/2023	--	<0.47	<0.53	<u>0.90</u> J1	<0.32	<0.17	ND
MW-7	10/1/2008	--	1.1	<0.50	<u>570</u>	<u>9.8</u>	<0.15	Chloromethane 0.54
	10/31/2008	--	<8.0	<10	<u>570</u>	<u>9.5</u>	<0.3	Methylene Chloride <u>17</u>
	11/2/2009	--	<20	<25	<u>688</u>	<20	<10	ND
	11/3/2010	(4)	<20	<25	<u>641</u>	<20	<10	ND
	12/27/2011	--	<20	<25	<u>537</u>	<20	<10	ND
	4/30/2015	(8)	<2.6	<2.6	<u>481</u>	<u>9.2</u> J1	<1.8	ND
	4/26/2016	(10)	<1.3	<1.3	<u>400</u>	<u>6.8</u>	<0.88	ND
	12/20/2017	--	1.3 J1	<1.3	<u>606</u>	<u>18.4</u>	<0.88	ND
	7/19/2019	--	1.5 J1	<5.5	<u>249</u>	<u>8.7</u>	<0.87	ND
	1/8/2020	--	0.5 J1	<1.1	<u>270</u>	<u>9.7</u>	<0.17	ND
4/27/2021	--	<0.94	<1.1	<u>160</u>	<u>5.5</u>	<0.35	ND	
PZ-7	10/1/2008	--	1.3	<0.50	<u>100</u>	<u>2.6</u>	<0.15	ND
	10/31/2008	--	2.1	<0.50	<u>85</u>	<u>2.7</u>	<0.15	Chlormethane 0.40 1,2-Dichloroethane <u>0.51</u> 1,1,2,2-Tetrachloroethane <u>85</u> 1,1,2-Trichloroethane <u>1.2</u>
	11/2/2009	--	<4.0	<5.0	<u>164</u>	<4.0	<2.0	ND
	11/3/2010	(6)	4.34 J	<5.00	<u>185</u>	<u>5.40</u> J	<2.00	ND
	12/27/2011	--	<4.00	<5.00	<u>160</u>	<4.00	<2.00	ND
	4/30/2015	--	<u>15.4</u>	<0.26	<u>105</u>	<u>5.5</u>	<0.18	1,2-Dichloroethane 0.27 J1
	4/26/2016	--	6.2	<0.26	<u>86.3</u>	<u>4.1</u>	<0.18	ND

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 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
PZ-7 (cont.)	12/20/2017	--	<u>11.3</u>	0.48 J1	<u>84.2</u>	<u>15.8</u>	<u>2.3</u>	ND
	7/19/2019	--	4.5	<1.1	<u>69.3</u>	<u>13.9</u>	<u>0.39</u> J1	ND
	1/8/2020	--	4.2	<1.1	<u>76.9</u>	<u>18.8</u>	<u>0.44</u> J1	ND
	4/27/2021	--	3.5	<0.53	<u>63.9</u>	<u>15.6</u>	<u>0.39</u> J1	ND
	4/27/2021 (DUP)	--	4.0	<0.53	<u>69.0</u>	<u>16.6</u>	<u>0.63</u> J1	ND
MW-8 Abandoned	10/1/2008	--	<u>97</u>	1.2	<u>1,000</u>	<u>49</u>	<u>1.5</u>	ND
	10/31/2008	--	<u>110</u>	<25	<u>890</u>	<u>59</u>	<7.5	Methylene Chloride <u>34</u>
	11/2/2009	--	<u>74.7</u> J	<50	<u>854</u>	<u>57.8</u> J	<20	ND
	11/4/2010	(4)	<u>71</u> J	<50	<u>765</u>	<u>55.8</u> J	<20	ND
	12/27/2011	(5)	<u>53.1</u> J	<50 DUP	<u>674</u>	<40 S2L	<20	sec-Butylbenzene 33.6 J
MW-8R	5/1/2015	(8)	<u>0.26</u> J1	<0.26	<u>29.3</u>	<u>0.67</u> J1	<0.18	ND
	4/25/2016	(10)	<u>9.3</u>	0.82 J1	<u>27.7</u>	<u>2.7</u>	<u>4.8</u>	ND
	12/19/2017	--	<u>0.34</u> J1	<0.26	<u>26.0</u>	<u>0.57</u> J1	<0.18	ND
	7/17/2019	(13)	<u>0.37</u> J1	<1.1	<u>17.9</u>	<u>1.2</u>	<0.17	ND
	1/7/2020	--	<u>0.31</u> J1	<1.1	<u>53.1</u>	<u>2.1</u>	<0.17	ND
	4/27/2021	--	<u>0.67</u> J1	<0.53	<u>54.8</u>	<u>2.4</u>	<0.17	ND
MW-9 Abandoned	10/31/2008	--	1.8	<0.5	<u>140</u>	<u>3.9</u>	<0.15	ND
PZ-9	11/2/2009	--	<40	<50	<u>374</u>	<40	<20	ND
	11/4/2010	(4)	<40	<50	<u>256</u>	<40	<20	ND
	12/27/2011	(6)	<4.00	<5.00	<u>327</u>	<u>13.6</u>	<2.00	ND
	4/29/2015	(8)	<0.64	<0.64	<u>156</u>	<u>10.7</u>	<0.44	ND
	4/25/2016	(10)	<0.26	<0.26	<u>116</u>	<u>1.0</u>	<0.18	Trichlorofluoromethane 0.19 J1
	12/20/2017	--	<u>0.31</u> J1	<0.26	<u>142</u>	<u>8.2</u>	<0.18	ND
	7/19/2019	--	<0.27	<1.1	<u>83.9</u>	<u>3.6</u>	<0.17	ND
	1/7/2020	--	<u>0.46</u> J1	<1.1	<u>85.5</u>	<u>5.8</u>	<0.17	ND
	4/28/2021	--	<0.47	<0.53	<u>58.4</u>	<u>1.4</u>	<0.17	ND
PZ-9A	1/8/2013	--	<0.12	<0.25	<u>180</u>	<u>2.0</u>	<0.10	ND
	4/29/2015	--	<0.26	<0.26	<u>125</u>	<u>1.8</u>	<0.18	Trichlorofluoromethane 0.28 J1
	4/25/2016	(10)	<0.26	<0.26	<u>81.9</u>	<u>0.63</u> J1	<0.18	Trichlorofluoromethane 0.46 J1
	12/20/2017	--	<0.26	<0.26	<u>22.7</u>	0.35 J1	<0.18	1,2-Dichloroethane <u>0.51</u> J1 Trichlorofluoromethane 0.44 J1
	7/19/2019	--	<0.27	<1.1	<u>111</u>	<u>1.30</u>	<0.17	ND
	1/7/2020	--	<0.27	<1.1	<u>135</u>	<u>1.20</u>	<0.17	Trichlorofluoromethane 0.23 J1
	4/28/2021	--	<0.47	<0.53	<u>151</u>	<u>1.9</u>	<0.17	ND
MW-10	10/31/2008	--	<2.0	<0.50	<u>0.59</u>	<0.15	<0.15	Chloroethane 0.77 Chloromethane 2.0
	10/30/2009	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	11/2/2010	(3)(4)	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	12/27/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	4/30/2015	--	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/25/2016	(10)	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/27/2021	--	<0.47	<0.53	<0.41	<0.32	<0.17	Chloroform <u>5.7</u>

**Table 2. Groundwater Analytical Results Summary - Chlorinated VOCs**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.50**  
 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
MW-11	10/30/2009	--	<4.0	<5.0	<u>78.4</u>	<u>32.3</u>	<2.0	ND
	11/3/2010	(4)	<4.00	<5.00	<u>61</u>	<u>16.5</u>	<2.00	ND
	12/27/2011	(6)	<2.00	<2.50	<u>84.4</u>	<u>29.4</u>	<1.00	ND
	4/30/2015	--	0.63 J1	<0.26	<u>61.2</u>	<u>14.1</u>	<0.18	ND
	4/25/2016	(10)	0.32 J1	<0.26	<u>49.0</u>	<u>11.7</u>	<0.18	ND
	12/20/2017	--	<0.26	<0.26	<u>46.3</u>	<u>8.6</u>	<0.18	ND
	12/20/2017 (DUP)	--	<0.26	<0.26	<u>42.9</u>	<u>7.9</u>	<0.18	ND
	7/18/2019	--	<0.27	<1.1	<u>32.5</u>	<u>4.3</u>	<0.17	ND
	1/7/2020	--	<0.27	<1.1	<u>28.0</u>	<u>3.1</u>	<0.17	ND
4/27/2021	--	<0.47	<0.53	<u>25.4</u>	<u>2.9</u>	<0.17	ND	
PZ-11	10/30/2009	--	<u>11.8</u> J	<5.0	<u>82.8</u>	<u>55.2</u>	<2.0	ND
	11/3/2010	(4)	<4.00	<5.00	<u>44.3</u>	<u>26.8</u>	<2.00	ND
	12/27/2011	(6)	<u>5.47</u> J	<2.50	<u>60.5</u>	<u>36.1</u>	<1.00	ND
	4/30/2015	--	<u>0.82</u> J1	<0.26	<u>42.6</u>	<u>12.5</u>	<0.18	ND
	4/25/2016	(10)	<u>0.58</u> J1	<0.26	<u>30.5</u>	<u>9.4</u>	<0.18	ND
	12/20/2017	--	<u>0.28</u> J1	<0.26	<u>24.0</u>	<u>4.5</u>	<0.18	ND
	7/18/2019	--	<0.27	<1.1	<u>19.4</u>	<u>2.9</u>	<0.17	ND
	1/7/2020	--	<u>3.2</u>	<1.1	<u>27.6</u>	<u>3.9</u>	<u>2.2</u>	ND
	4/27/2021	--	<0.47	<0.53	<u>10.2</u>	<u>1.1</u>	<0.17	ND
MW-12 Abandoned	10/30/2009	--	<0.40	<0.50	<u>4.1</u>	<0.40	<0.20	ND
	11/2/2010	(4)	<0.40	<0.50	<u>2.93</u>	<0.40	<0.20	Chloromethane 0.43 J
	12/27/2011	--	<0.40	<0.50	<u>3.56</u>	<0.40	<0.20	ND
	5/1/2015	--	<0.26	<0.26	<u>6.1</u>	<0.33	<0.18	ND
	4/25/2016	(10)	<0.26	<0.26	<u>5.7</u>	<0.33	<0.18	ND
MW-12R	4/27/2021	--	<0.47	<0.53	<u>6.3</u>	<0.32	<0.17	ND
	6/26/2023	--	<0.47	<0.53	<u>3.8</u>	<0.32	<0.17	ND
MW-13	5/1/2015	(8)	<0.26	<0.26	<u>7.7</u>	0.44 J1	<0.18	ND
	4/25/2016	(11)	<0.26	<0.26	<u>12.3</u>	<u>0.97</u> J1	<0.18	ND
	12/20/2017	(8)	<0.26	<0.26	<u>13.1</u>	<u>2.0</u>	<0.18	ND
	7/17/2019	--	<0.27	<1.1	<u>17.9</u>	<u>4.3</u>	<0.17	ND
	1/8/2020	--	<0.27	<1.1	<u>21.5</u>	<u>4.8</u>	<0.17	ND
	4/27/2021	(8)	<0.47	<0.53	<u>13.8</u>	<u>1.4</u>	<0.17	ND
6/26/2023	--	<0.47	<0.53	<u>6.0</u>	<0.32	<0.17	ND	
MW-14	5/1/2015	--	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/25/2016	(10)	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	12/19/2017	--	<0.26	<0.26	<u>2.0</u>	<0.33	<0.18	ND
	4/27/2021	--	<0.47	<0.53	<0.41	<0.32	<0.17	ND
MW-15	5/1/2015	(8)	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/26/2016	(10)	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	12/19/2017	(8)	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/27/2021	--	<0.47	<0.53	<0.41	<0.32	<0.17	ND
MW-16	4/28/2021	--	<u>168</u>	3.2	<u>359</u>	<u>77.7</u>	<u>1.0</u> J1	ND
Field Blank	4/29/2015	--	<0.26	<0.26	<0.50	<0.33	<0.18	ND

**Table 2. Groundwater Analytical Results Summary - Chlorinated VOCs**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.50**  
 (Results are in µg/L)

Sample	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	PCE	TCE	Vinyl Chloride	Other Chlorinated VOCs
Trip Blank	10/1/2008	--	<0.40	<0.50	<0.40	<0.15	<0.15	Methylene Chloride <u>0.56</u>
	10/30/2008	--	<0.40	<0.50	<0.40	<0.15	<0.15	ND
	10/30/2009	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	11/2/2009	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	11/2/2010	(4)	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	12/28/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
	9/10/2013	(7)	<0.30	<0.30	<0.29	<0.50	<0.18	ND
	4/30/2015	--	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	4/26/2016	(10)	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	12/20/2017	--	<0.26	<0.26	<0.50	<0.33	<0.18	ND
	7/19/2019	--	<0.27	<1.1	<0.33	<0.26	<0.17	ND
	1/8/2020	--	<0.27	<1.1	<0.33	<0.26	<0.17	ND
	4/28/2021	--	<0.47	<0.53	<0.41	<0.32	<0.17	ND
6/26/2023	--	<0.47	<0.53	<0.41	<0.32	<0.17	ND	
Trip Blank 2	12/28/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
Trip Blank 3	12/28/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
Trip Blank 4	12/28/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
Trip Blank 5	12/28/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
Trip Blank 6	12/28/2011	--	<0.40	<0.50	<0.30	<0.40	<0.20	ND
NR 140 Enforcement Standards (ES)			70	100	20	0.5	2	Chloroethane 400 Chloromethane 30 Chloroform 6 Dichlorodifluoromethane 1000 1,2-Dichlorobenzene 600 1,4-Dichlorobenzene 75 1,1-Dichloroethene 7 1,2-Dichloroethane 5 Fluorotrichloromethane (Trichlorofluoromethane) 3490 Methylene Chloride 5 1,1,2,2-Tetrachloroethane 0.2 1,1,2-Trichloroethane 5 Tetrahydrofuran 50
NR 140 Preventive Action Limits (PAL)			7	20	2	0.05	0.02	Chloroethane 80 Chloromethane 3 Chloroform 0.6 Dichlorodifluoromethane 200 1,2-Dichlorobenzene 60 1,4-Dichlorobenzene 15 1,1-Dichloroethene 0.7 1,2-Dichloroethane 0.5 Fluorotrichloromethane (Trichlorofluoromethane) 698 Methylene Chloride 0.5 1,1,2,2-Tetrachloroethane 0.02 1,1,2-Trichloroethane 0.5 Tetrahydrofuran 10

Abbreviations:

NE = No Standard Established  
 ND = Not Detected  
 -- = Not Applicable

MTBE = Methyl-tert-butyl ether  
 TCE = trichloroethene  
 PCE = tetrachloroethene

VOCs = Volatile Organic Compounds  
 TMBs = 1,2,4- and 1,3,5-trimethylbenzenes  
 µg/L = micrograms per liter or parts per billion (ppb)

Notes:

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

\*\* = Well MW-6 was reported as abandoned in 2010, but the well was buried. Well was found in 2020 and data was collected.

**Table 3**  
**Vertical Hydraulic Gradient Calculations**  
**Laundry Land/Northgate DERF Project # 25211374.50**

Well Nest	Date	Shallower Well	Groundwater Elevation (h) (ft amsl)	Reference Point (L) (ft amsl)	Top of Screen (ft amsl)	Bottom of Screen (ft amsl)	Deeper Well	Groundwater Elevation (h) (ft amsl)	Reference Point (L) (ft amsl)	Top of Screen (ft amsl)	Bottom of Screen (ft amsl)	Dh (ft)	DL (ft)	Vertical Gradient (i) (Dh/DL)	Vertical Flow Direction
MW1/PZ1	11/5/2008	MW1	849.57	849.6	853.5	843.5	PZ1	849.56	826.0	828.5	823.5	0.01	23.57	0.000	Down
MW1/PZ1	4/27/2021	MW1	849.86	849.9	852.83	842.83	PZ1	849.86	825.6	828.08	823.08	0.00	24.28	0.000	--
MW2/PZ2	11/5/2008	MW2	849.58	849.6	852.1	842.1	PZ2	849.61	825.7	828.2	823.2	-0.03	23.88	-0.001	Up
MW2/PZ2	4/27/2021	MW2	849.88	849.9	853.08	843.08	PZ2	849.80	825.9	828.36	823.36	0.08	24.02	0.003	Down
<b>MW2/PZ2</b>	<b>6/26/2023</b>	<b>MW2</b>	<b>849.01</b>	849.0	<b>853.08</b>	<b>843.08</b>	<b>PZ2</b>	<b>849.01</b>	<b>825.9</b>	<b>828.36</b>	<b>823.36</b>	<b>0.00</b>	<b>23.15</b>	<b>0.000</b>	--
MW3/PZ3	11/5/2008	MW3	849.56	849.6	853.2	843.2	PZ3	849.55	824.6	827.1	822.1	0.01	24.96	0.000	Down
MW3/PZ3	4/27/2021	MW3	849.87	849.9	852.48	842.48	PZ3	849.80	825.0	827.50	822.50	0.07	24.87	0.003	Down
MW4/PZ4	11/5/2008	MW4	849.53	849.5	8452.8	842.8	PZ4	849.53	827.4	829.90	824.90	0.00	22.13	0.000	--
MW4/PZ4	4/27/2021	MW4	849.87	849.9	853.09	843.09	PZ4	849.84	825.7	828.20	823.20	0.03	24.17	0.001	Down
MW5/PZ5	11/5/2008	MW5	849.49	849.5	851.8	841.8	PZ5	849.47	825.6	828.10	823.10	0.02	23.89	0.001	Down
MW5/PZ5	4/27/2021	MW5	849.9	849.9	850.87	840.87	PZ5	849.87	823.6	826.13	821.13	0.03	26.27	0.001	Down
<b>MW5/PZ5</b>	<b>6/26/2023</b>	<b>MW5</b>	<b>849.04</b>	<b>849.0</b>	<b>850.87</b>	<b>840.87</b>	<b>PZ5</b>	<b>849.02</b>	<b>823.6</b>	<b>826.13</b>	<b>821.13</b>	<b>0.02</b>	<b>25.41</b>	<b>0.001</b>	<b>Down</b>
MW11/PZ11	4/27/2021	MW11	849.9	849.9	853.78	843.78	PZ11	849.90	829.1	833.60	826.60	0.00	20.80	0.000	--

**ABBREVIATIONS:**

ft = feet      amsl = above mean sea level

**NOTES:**

1. Wells were resurveyed April 27, 2021: MW5, PZ5 casings were cut off 0.2' on January 8, 2020.
2. Groundwater measurements were taken from the top of casing and are referenced to the mean sea level datum.
3. Reference Point refers to the water table elevation in the water table well or the well screen midpoint elevation in piezometers (based on the information summarized on well construction forms).  
 If the groundwater elevation is above the top of the screen in the water table well, the well screen midpoint elevation is used as the reference point.  
 If the groundwater elevation is below the top of the screen in the piezometer, the groundwater elevation is used as the reference point.

Created by: BJS                      Date: 7/16/2022  
 Revised by: BJS                      Date: 7/14/2023  
 Checked by: REL                      Date: 9/11/2023

I:\3745\2023 Workscope\2023 SI Update\Tables\[3\_Vertical Gradients.xls]Calculations

**Table 4. Sub-Slab Vapor Analytical Results Summary**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.54**  
 (Results are in ppbv)

N. Sherman Ave. (or as noted)	Occupant as of November 16, 2020	Sample Name	Date	Lab Notes	cis-1,2-DCE	trans-1,2- DCE	PCE	TCE	Vinyl Chloride
1111	Cash Store	Cash Store	8/29/2016	--	<21	<21	510	<21	<21
		1111 East	7/25/2023	--	<0.50	<0.66	210	<0.66	<1.3
1113	Tobacco Outlet	1113 South	8/21/2019	--	<0.099	<0.13	<b>1,060</b>	3.5	<0.089
		1113 South	7/25/2023	J,B	<0.025	<0.033	47	0.13	<0.065
		1113 North	7/25/2023	J,B	0.098	<0.033	7.2	0.40	<0.065
		SS-1	3/4/2019	--	<0.08	<0.10	516.41	0.81	<0.07
		SSB-2	3/12/2019	--	<0.07	<0.10	<b>3,060.7</b>	11.81	<0.07
1117	Vacant	1117 South	8/21/2019	--	<0.094	<0.12	<b>5,820</b>	7	<0.085
1131	Dream Bikes	Laundry Land #1	10/10/2012	--	<1,200	<1,200	<b>120,000</b>	<890	<1,900
		Laundry Land #2	10/10/2012	--	<2,000	<2,000	<b>180,000</b>	<1,500	<3,100
		1131 North	8/21/2019	(1)	<466	<608	<b>509,000</b>	<b>4,760</b>	<416
		1131 South	8/21/2019	(2)	<0.094	<0.12	<b>15,700</b>	1.3	<0.085
1133	Boomerangs	Boomerangs #1	10/11/2012	--	<140	<140	<b>10,000</b>	<100	<210
		Boomerangs #2	10/11/2012	--	<3.8	<3.8	370	<2.8	<5.9
		Boomerangs #2 (DUP)	10/11/2012	--	<3.6	<3.6	350	<2.7	<5.6
		1133 North	8/21/2019	--	2.6	3.5	<b>7,950</b>	<b>167</b>	<0.085
		1133 South	8/21/2019	--	<0.094	<0.12	205	<0.082	<0.085
1137	CSN	Community Support Network #1	10/10/2012	--	<160	<160	<b>16,000</b>	<b>410</b>	<250
		Community Support Network #2	10/10/2012	--	<17	<17	<b>1,500</b>	<13	<27
		1137 North	5/7/2020	(5)	<1.5	<2.2	<b>10,300</b>	49.8	<1.9
		1137 South	5/7/2020	(5)	<1.6	<2.3	<b>13,000</b>	11.1	<2
1151	CSN	Vacant Store 2 #1	10/12/2012	(3)	<0.19	<0.19	64	<0.14	<0.30
		Vacant Store 2 #2	10/12/2012	--	<0.21	<0.21	24	<0.16	<0.33
		1151 A North	5/7/2020	(5)	<0.055	<0.079	<b>2,220</b>	0.71	<0.069
		1151 A South	5/7/2020	(5)	<0.052	<0.077	397	<0.073	<0.065
		1151 B North	5/7/2020	(5)	<0.052	<0.077	<b>1,580</b>	0.22	<0.065
		1151 B South	5/7/2020	(5)	<1.4	<2	<b>18,300</b>	<b>79.1</b>	<1.8
1159	Weaver Auto Parts	Weaver Auto Parts	3/31/2015	--	<43	<43	480	<43	<43
		1159 N	11/16/2020	(5)	<0.06	<0.074	190	<0.06	<0.058
		1159 S	11/16/2020	(5)	<0.06	<0.074	741	<0.06	<0.058
1171	VNails	1171 N	11/16/2020	(5)	<0.067	<0.082	11.2	<0.068	<0.065
		1171 S	11/16/2020	(5)	<0.067	<0.082	173	<0.068	<0.065
1181	Door Creek Church	Precious Moments	4/21/2015	--	<2.1	<2.1	39	<2.1	<2.1
		1181 E	11/16/2020	(5)	<0.05	<0.06	4.8	0.24	<0.046
		1181 W	11/16/2020	(5)	<0.065	<0.077	7.9	<0.064	<0.062
1191	CSN	1191 E	11/16/2020	(5)	<0.062	<0.074	10	<0.062	<0.058
		1191 W	11/16/2020	(5)	<0.06	<0.072	36	<0.059	<0.054
1193	Anytime Fitness	1193 E	11/17/2020	(5)	<0.06	<0.074	18.1	<0.06	<0.058
		1193 W	11/17/2020	(5)	<0.06	<0.074	39.5	<0.06	<0.058
1197	Madison Oriental Market	1197 E	11/16/2020	(5)	<0.06	<0.074	6.2	<0.06	<0.058
		1197 W	11/16/2020	(5)	<0.057	<0.067	29.6	<0.057	<0.054

**Table 4. Sub-Slab Vapor Analytical Results Summary**  
**Laundry Land Cleaners / SCS Engineers Project #25211374.54**  
 (Results are in ppbv)

N. Sherman Ave. (or as noted)	Occupant as of November 16, 2020	Sample Name	Date	Lab Notes	cis-1,2-DCE	trans-1,2- DCE	PCE	TCE	Vinyl Chloride
1201	Dog Dog Daycare	Northside Restaurant	4/1/2015	--	<43	<43	420	<43	<43
		1201 E	11/17/2020	(5)	<0.055	<0.065	<u>16.8</u>	0.15 J	<0.05
		1201 W	11/17/2020	(5)	<0.06	<0.074	<u>53.5</u>	<0.06	<0.058
1203	Naly's Floral	Vacant Store 1 #1	10/10/2012	--	<100	<100	<u>7,800</u>	<76	<160
		Vacant Store 1 #2	10/10/2012	--	<39	<39	<u>3,000</u>	<28	<60
		1203 East	5/6/2020	(5)	0.15 J	<0.077	11.4	<0.073	<0.065
		1203 West	5/6/2020	(5)	<0.077	<0.11	75	<0.11	<0.1
1205	H&R Block	H&R Block	4/1/2015	--	<43	<43	<u>3,200</u>	<43	<43
		1205 East	5/21/2020	(5)	<0.05	<0.072	226	0.2	<0.065
		1205 West	5/21/2020	(5)	<1.5	<2.2	<u>9,500</u>	<2.2	<2
1207	Falbo Bros	Falbo Bros	4/1/2015	--	<64	<64	<u>3,100</u>	<64	<64
		1207 West	5/6/2020	(5)	<0.05	<0.072	<u>1,350</u>	0.29	<0.065
1213	UPS Store	UPS Store #1	10/12/2012	--	<13	<13	<u>1,200</u>	13	<21
		UPS Store #2	10/12/2012	(3)	<0.83	<0.83	140	<0.61	<1.3
		1213 East	5/6/2020	(5)	<0.052	<0.077	43.7	<0.073	<0.065
		1213 West	5/6/2020	(5)	<0.052	<0.077	<u>1,390</u>	0.4	<0.065
1293	Kaylees's	(Kiddos) Front Mail Room	3/1/2013	(4)	<0.28	<0.28	0.33	<0.28	<0.28
		(Kiddos) 4-Year-old Room	3/1/2013	--	<0.28	<0.28	1.0	<0.28	<0.28
		(Kiddos) Back Room (mop closet)	3/1/2013	(4)	<0.28	<0.28	5.5	<0.28	<0.28
1819 Aberg	Dane County Job Center	Dane County Office Bldg	1/28/2016	--	<3.2	<2.7	520	<1.9	<3.8
1738 Roth	Dane County	1738 NW	1/8/2021	--	<0.06	<0.072	16.1	<0.068	<0.058
Vapor Risk Screening Level (Residential Buildings)					350	350	200	13	22
Vapor Risk Screening Level (Small Commercial Buildings)					1400	1400	840	53	360

Abbreviations:

ppbv = parts per billion by volume  
 PCE = Tetrachloroethene

NE = No Established Standard  
 TCE = Trichloroethene

DUP = Duplicate sample  
 DCE = Dichloroethene

Notes:

1. Samples were collected in 6L summa canisters over 30 minute period and analyzed using the US EPA TO-15 analytical method.
2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table RR-0136, 8/2023, which is based on May 2023 USEPA Regional Screening Level Tables.
3. **Bold & underlined** values meet or exceed Vapor Risk Screening Levels for small commercial buildings.
4. March 2019 Tabaco Outlet samples collected by Pioneer Environmental, Inc. Results converted by SCS Engineers from micrograms per cubic meter (ug/m3) to parts per billion by volume (ppbv) using U.S. EPA Indoor Air Unit Conversion calculator ([https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia\\_unit\\_conversion.html](https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia_unit_conversion.html)) assuming 20 degrees Celsius and 1 atmosphere pressure.

Laboratory Notes:

- B = TCE found in the blank and sample 1113 SOUTH; cis-1,2-DCE was found in the blank and sample 1113 NORTH .  
 J = Estimated PCE concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ) in sample 1113 SOUTH; cis-1,2-DCE in sample 1113 NORTH.
- (1) Tetrachloroethene = Analyte concentration exceeded the calibration range. The reported result is estimated.
  - (2) Trichloroethene = Result may be biased high due to carryover from previously analyzed sample.
  - (3) Tetrachloroethene = The reported result is from a dilution.
  - (4) Internal laboratory standard quality control limit exceeded.
  - (5) These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Created by: TLC  
 Last Rev by: REO  
 Checked by: BJS  
 Proj Mgr QA/QC: BJS

Date: 10/26/2012  
 Date: 9/8/2023  
 Date: 9/8/2023  
 Date: 9/11/2023



**Table 5. Indoor Air Analytical Results Summary**  
**Laundry Land Cleaners, Madison, WI / SCS Engineers Project #25211374.51**  
 (Results are in ppbv)

Sample Name	Date	Lab Notes	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Kiddo's Day Care #1	10/11/2012	--	<0.20	<0.20	<0.12	<0.15	<0.31
Kiddo's Day Care #2	10/11/2012	--	<0.16	<0.16	<0.096	<0.12	<0.25
1117 North Indoor Air (Basement)	8/22/2019	--	<0.084	<0.11	<b><u>194</u></b>	<b><u>1.9</u></b>	<0.077
1219 North Indoor Air	5/7/2020	(1)	<0.042	<0.062	<0.058	<0.06	<0.054
IAS-2	3/12/2019	--	<0.08	<0.11	<b>0.86</b>	<0.07	<0.08
AA-S2 (Outdoor Air)	3/12/2019	--	<0.09	<0.11	<0.07	<0.07	<0.08
Indoor Air Vapor Action Level (Residential Building)			10	45	6.1	0.38	0.65
Indoor Air Vapor Action Level (Small Commercial Building)			10	45	26	1.6	11

Notes:

1. Samples were collected in 6L summa canisters over 24 hour period and analyzed using the US EPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, RR-0136, August 2023, which is based on May 2023 USEPA Regional Screening Level Tables. Residential values are used for school and daycare facilities.
3. **Bold & underlined** values exceed Indoor Air Vapor Action Levels.
4. March 2019 Tabaco Outlet samples collected by Pioneer Environmental, Inc. Results converted by SCS Engineers from micrograms per cubic meter (ug/m3) to parts per million by volume (ppbv) using U.S. EPA Indoor Air Unit Conversion calculator ([https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia\\_unit\\_conversion.html](https://www3.epa.gov/ceampubl/learn2model/part-two/onsite/ia_unit_conversion.html)) assuming 20 degrees Celsius and 1 atmosphere pressure.  
 ppbv = parts per billion by volume  
 NE = No Established Standard

Laboratory Notes:

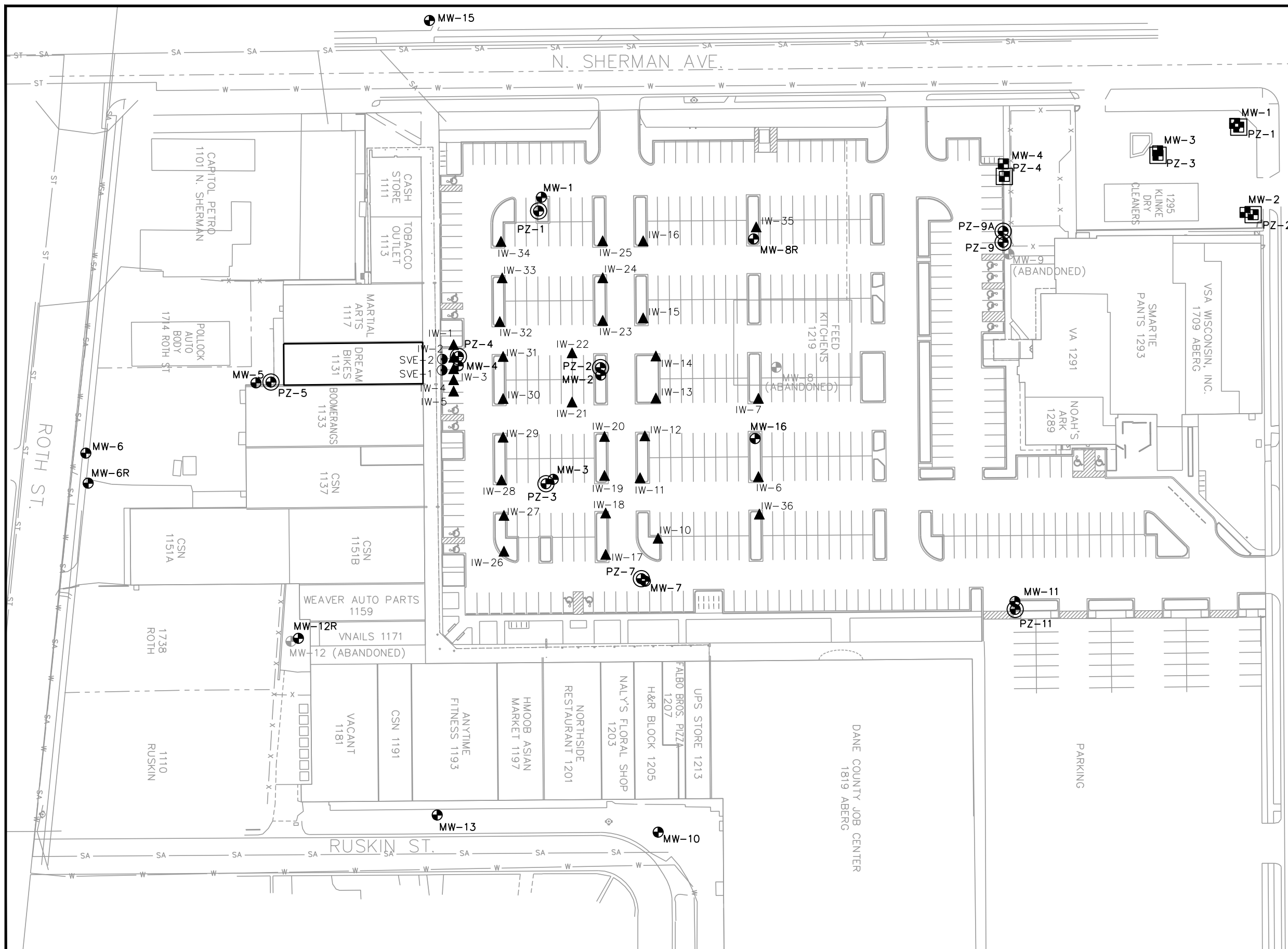
- (1) These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal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

Created by:	<u>TLC</u>	Date:	<u>10/26/2012</u>
Last Rev by:	<u>BJS</u>	Date:	<u>9/8/2023</u>
Checked by:	<u>REL</u>	Date:	<u>9/11/2023</u>
Proj Mgr QA/QC:	<u>BJS</u>	Date:	<u>9/11/2023</u>

I:\3745\2023 Workslope\2023 SI Update\Tables\[5\_Indoor-Air\_Results.xls]VOCs

## Figures

- 1 Site Map with All Wells
- 2 Vapor Sampling Locations

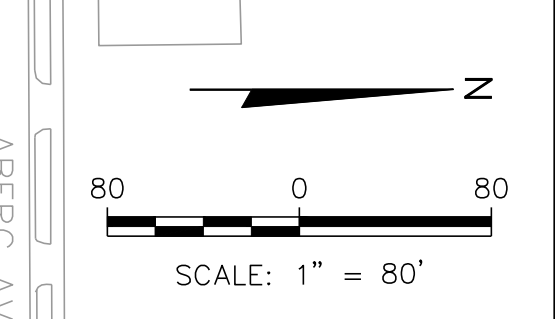


**LEGEND**

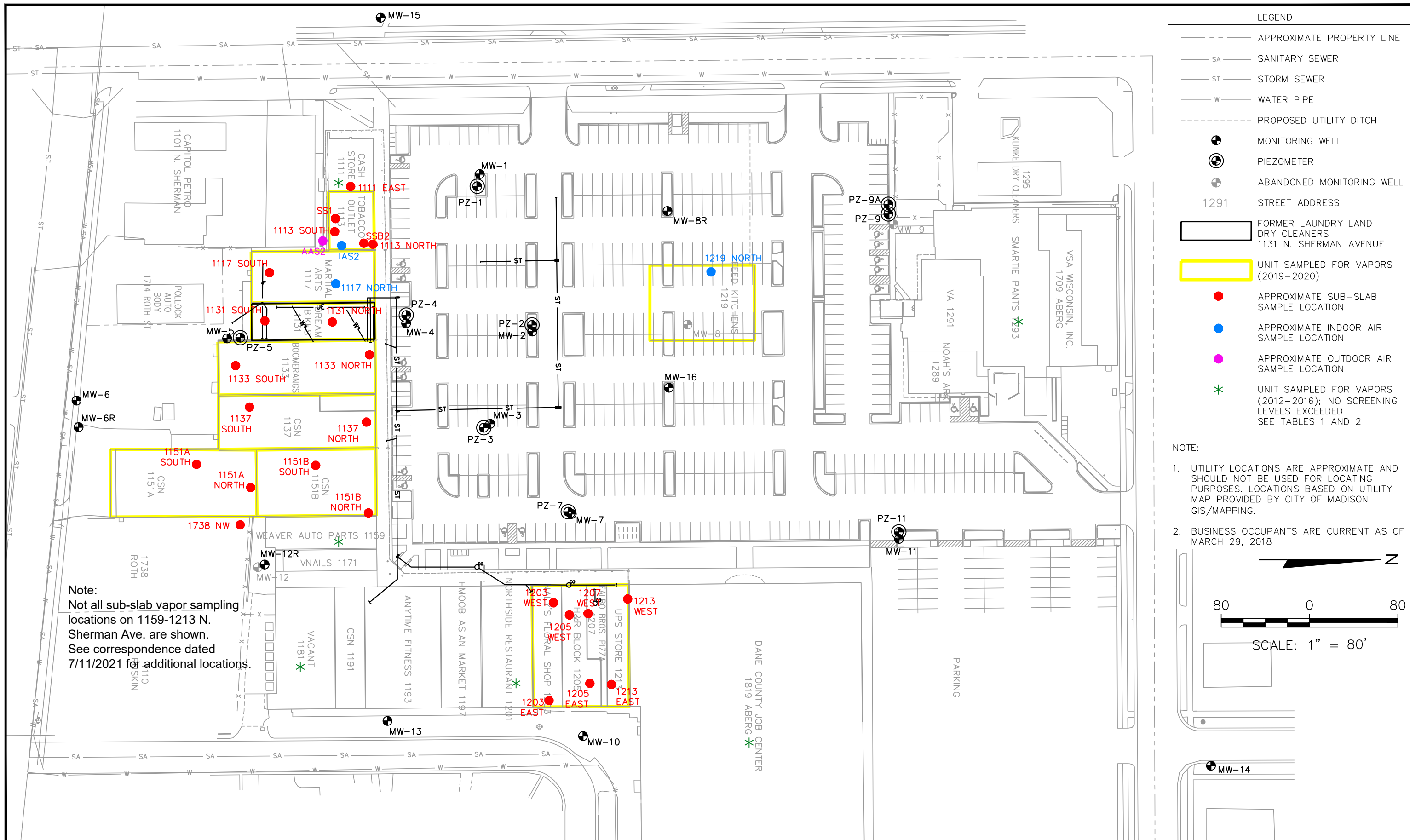
- APPROXIMATE PROPERTY LINE
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER PIPE
- ▲ INJECTION WELL
- MONITORING WELL
- ⊕ PIEZOMETER
- ⊙ SOIL VAPOR EXTRACTION WELL
- KLINKE MONITORING WELL
- ⊞ KLINKE PIEZOMETER
- 1291 STREET ADDRESS
- FORMER LAUNDRY LAND DRY CLEANERS 1131 N. SHERMAN AVENUE

**NOTE:**

- UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR LOCATING PURPOSES. LOCATIONS BASED ON UTILITY MAP PROVIDED BY CITY OF MADISON GIS/MAPPING.
- BUSINESS OCCUPANTS ARE CURRENT AS OF MARCH 29, 2018



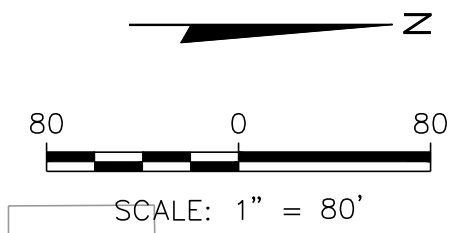
PROJECT NO. 25211374.51	DRAWN BY: BSS	<b>SCS ENGINEERS</b> 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT NORTHGATE PARTNERSHIP 7625 BONETTI ROAD DANE, WI 53529	SITE <b>NORTHGATE SHOPPING CENTER</b> 1127 NORTH SHERMAN AVE. MADISON, WI	FIGURE 2
DRAWN: 06/11/2021	CHECKED BY: BJS		ENGINEER		
REVISED: 06/11/2021	APPROVED BY: BJS, 9/12/23				



LEGEND


- APPROXIMATE PROPERTY LINE
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER PIPE
- - - - PROPOSED UTILITY DITCH
- MONITORING WELL
- ⊕ PIEZOMETER
- ⊖ ABANDONED MONITORING WELL
- 1291 STREET ADDRESS
- FORMER LAUNDRY LAND DRY CLEANERS 1131 N. SHERMAN AVENUE
- UNIT SAMPLED FOR VAPORS (2019-2020)
- APPROXIMATE SUB-SLAB SAMPLE LOCATION
- APPROXIMATE INDOOR AIR SAMPLE LOCATION
- APPROXIMATE OUTDOOR AIR SAMPLE LOCATION
- \* UNIT SAMPLED FOR VAPORS (2012-2016); NO SCREENING LEVELS EXCEEDED SEE TABLES 1 AND 2

- NOTE:
- UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR LOCATING PURPOSES. LOCATIONS BASED ON UTILITY MAP PROVIDED BY CITY OF MADISON GIS/MAPPING.
  - BUSINESS OCCUPANTS ARE CURRENT AS OF MARCH 29, 2018



Note:  
 Not all sub-slab vapor sampling locations on 1159-1213 N. Sherman Ave. are shown. See correspondence dated 7/11/2021 for additional locations.

PROJECT NO. 25211374.50	DRAWN BY: BJM/LEC	ENGINEER	<b>SCS ENGINEERS</b> 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	NORTHGATE PARTNERSHIP 7625 BONETTI ROAD DANE, WI 53529	SITE	NORTHGATE SHOPPING CENTER 1127 NORTH SHERMAN AVE. MADISON, WI	VAPOR SAMPLING LOCATIONS	FIGURE
DRAWN: 08/25/2016	CHECKED BY: BJS								2
REVISED: 09/11/2023	APPROVED BY: BJS, 9/12/23								



Attachment A  
Laboratory Analytical Reports

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dr. Betty Socha  
SCS Engineers  
2830 Dairy Dr  
Madison, Wisconsin 53718

Generated 8/3/2023 5:35:38 PM

## JOB DESCRIPTION

Northgate - 2023 Scope - 25211374.54 T2

## JOB NUMBER

500-237402-1

# 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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8/3/2023 5:35:38 PM

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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Method Summary . . . . .	6
Sample Summary . . . . .	7
Client Sample Results . . . . .	8
Definitions . . . . .	11
QC Association . . . . .	12
Surrogate Summary . . . . .	13
QC Sample Results . . . . .	14
Chronicle . . . . .	16
Certification Summary . . . . .	17
Chain of Custody . . . . .	18
Receipt Checklists . . . . .	20
Clean Canister Certification . . . . .	21
Clean Canister Data . . . . .	21



# Case Narrative

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

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## Job ID: 500-237402-1

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### Laboratory: Eurofins Chicago

#### Narrative

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#### Job Narrative 500-237402-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/31/2023 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

#### Air - GC/MS VOA

Method TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by Eurofins TestAmerica Knoxville.

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: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Client Sample ID: 1113 SOUTH

## Lab Sample ID: 500-237402-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	42	E	0.20	0.029	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.13	J B	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene - DL	47		0.40	0.058	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	290	E	1.4	0.20	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.71	J B	1.1	0.18	ug/m3	1		TO-15	Total/NA
Tetrachloroethene - DL	320		2.7	0.39	ug/m3	1		TO-15	Total/NA

## Client Sample ID: 1113 NORTH

## Lab Sample ID: 500-237402-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.098	J B	0.20	0.025	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	7.2		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.40	B	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.39	J B	0.79	0.099	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	49		1.4	0.20	ug/m3	1		TO-15	Total/NA
Trichloroethene	2.1	B	1.1	0.18	ug/m3	1		TO-15	Total/NA

## Client Sample ID: 1111 EAST

## Lab Sample ID: 500-237402-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	210		4.0	0.58	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1400		27	3.9	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET KNX

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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# Sample Summary

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-237402-1	1113 SOUTH	Air	07/25/23 11:46	07/31/23 14:00	Air Canister (6-Liter) #09917
500-237402-2	1113 NORTH	Air	07/25/23 12:35	07/31/23 14:00	Air Canister (6-Liter) #34000201
500-237402-3	1111 EAST	Air	07/25/23 13:23	07/31/23 14:00	Air Canister (6-Liter) #34002041

- 1
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- 3
- 4
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- 7
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- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

**Client Sample ID: 1113 SOUTH**

**Lab Sample ID: 500-237402-1**

Date Collected: 07/25/23 11:46

Matrix: Air

Date Received: 07/31/23 14:00

Sample Container: Summa Canister 6L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.025		0.20	0.025	ppb v/v			08/01/23 19:02	1
<b>Tetrachloroethene</b>	<b>42</b>	<b>E</b>	0.20	0.029	ppb v/v			08/01/23 19:02	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/01/23 19:02	1
<b>Trichloroethene</b>	<b>0.13</b>	<b>J B</b>	0.20	0.033	ppb v/v			08/01/23 19:02	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			08/01/23 19:02	1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.099		0.79	0.099	ug/m3			08/01/23 19:02	1
<b>Tetrachloroethene</b>	<b>290</b>	<b>E</b>	1.4	0.20	ug/m3			08/01/23 19:02	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/01/23 19:02	1
<b>Trichloroethene</b>	<b>0.71</b>	<b>J B</b>	1.1	0.18	ug/m3			08/01/23 19:02	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			08/01/23 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		08/01/23 19:02	1

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>47</b>		0.40	0.058	ppb v/v			08/02/23 15:54	1
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>320</b>		2.7	0.39	ug/m3			08/02/23 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140		08/02/23 15:54	1

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

**Client Sample ID: 1113 NORTH**

**Lab Sample ID: 500-237402-2**

Date Collected: 07/25/23 12:35

Matrix: Air

Date Received: 07/31/23 14:00

Sample Container: Summa Canister 6L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.098	J B	0.20	0.025	ppb v/v			08/01/23 19:57	1
Tetrachloroethene	7.2		0.20	0.029	ppb v/v			08/01/23 19:57	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/01/23 19:57	1
Trichloroethene	0.40	B	0.20	0.033	ppb v/v			08/01/23 19:57	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			08/01/23 19:57	1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.39	J B	0.79	0.099	ug/m3			08/01/23 19:57	1
Tetrachloroethene	49		1.4	0.20	ug/m3			08/01/23 19:57	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/01/23 19:57	1
Trichloroethene	2.1	B	1.1	0.18	ug/m3			08/01/23 19:57	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			08/01/23 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140		08/01/23 19:57	1

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

**Client Sample ID: 1111 EAST**

**Lab Sample ID: 500-237402-3**

Date Collected: 07/25/23 13:23

Matrix: Air

Date Received: 07/31/23 14:00

Sample Container: Summa Canister 6L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.50		4.0	0.50	ppb v/v			08/01/23 20:48	1
<b>Tetrachloroethene</b>	<b>210</b>		4.0	0.58	ppb v/v			08/01/23 20:48	1
trans-1,2-Dichloroethene	<0.66		4.0	0.66	ppb v/v			08/01/23 20:48	1
Trichloroethene	<0.66		4.0	0.66	ppb v/v			08/01/23 20:48	1
Vinyl chloride	<1.3		8.0	1.3	ppb v/v			08/01/23 20:48	1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<2.0		16	2.0	ug/m3			08/01/23 20:48	1
<b>Tetrachloroethene</b>	<b>1400</b>		27	3.9	ug/m3			08/01/23 20:48	1
trans-1,2-Dichloroethene	<2.6		16	2.6	ug/m3			08/01/23 20:48	1
Trichloroethene	<3.5		21	3.5	ug/m3			08/01/23 20:48	1
Vinyl chloride	<3.3		20	3.3	ug/m3			08/01/23 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140		08/01/23 20:48	1

# Definitions/Glossary

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Air - GC/MS VOA

### Analysis Batch: 75913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237402-1	1113 SOUTH	Total/NA	Air	TO-15	
500-237402-2	1113 NORTH	Total/NA	Air	TO-15	
500-237402-3	1111 EAST	Total/NA	Air	TO-15	
MB 140-75913/7	Method Blank	Total/NA	Air	TO-15	
LCS 140-75913/1002	Lab Control Sample	Total/NA	Air	TO-15	

### Analysis Batch: 75921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237402-1 - DL	1113 SOUTH	Total/NA	Air	TO-15	
MB 140-75921/5	Method Blank	Total/NA	Air	TO-15	
LCS 140-75921/1002	Lab Control Sample	Total/NA	Air	TO-15	

# Surrogate Summary

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
500-237402-1	1113 SOUTH	96
500-237402-1 - DL	1113 SOUTH	102
500-237402-2	1113 NORTH	99
500-237402-3	1111 EAST	93
LCS 140-75913/1002	Lab Control Sample	99
LCS 140-75921/1002	Lab Control Sample	106
MB 140-75913/7	Method Blank	89
MB 140-75921/5	Method Blank	94

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 140-75913/7**  
**Matrix: Air**  
**Analysis Batch: 75913**

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	0.0272	J	0.20	0.025	ppb v/v			08/01/23 11:31	1
Tetrachloroethene	<0.029		0.20	0.029	ppb v/v			08/01/23 11:31	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/01/23 11:31	1
Trichloroethene	0.0884	J	0.20	0.033	ppb v/v			08/01/23 11:31	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			08/01/23 11:31	1

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	0.108	J	0.79	0.099	ug/m3			08/01/23 11:31	1
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			08/01/23 11:31	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/01/23 11:31	1
Trichloroethene	0.475	J	1.1	0.18	ug/m3			08/01/23 11:31	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			08/01/23 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	89		60 - 140		08/01/23 11:31	1

**Lab Sample ID: LCS 140-75913/1002**  
**Matrix: Air**  
**Analysis Batch: 75913**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Tetrachloroethene	2.00	1.78		ppb v/v		89	70 - 130
trans-1,2-Dichloroethene	2.00	2.04		ppb v/v		102	70 - 130
Trichloroethene	2.00	1.80		ppb v/v		90	70 - 130
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
Tetrachloroethene	14	12.1		ug/m3		89	70 - 130
trans-1,2-Dichloroethene	7.9	8.08		ug/m3		102	70 - 130
Trichloroethene	11	9.69		ug/m3		90	70 - 130
Vinyl chloride	5.1	5.27		ug/m3		103	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		60 - 140

**Lab Sample ID: MB 140-75921/5**  
**Matrix: Air**  
**Analysis Batch: 75921**

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.029		0.20	0.029	ppb v/v			08/02/23 09:40	1

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			08/02/23 09:40	1

Eurofins Chicago

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 140-75921/5**  
**Matrix: Air**  
**Analysis Batch: 75921**

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	94		60 - 140		08/02/23 09:40	1

**Lab Sample ID: LCS 140-75921/1002**  
**Matrix: Air**  
**Analysis Batch: 75921**

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Tetrachloroethene	2.00	1.97		ppb v/v		99	70 - 130
<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Tetrachloroethene	14	13.4		ug/m3		99	70 - 130

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	106		60 - 140

# Lab Chronicle

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Client Sample ID: 1113 SOUTH

Lab Sample ID: 500-237402-1

Date Collected: 07/25/23 11:46

Matrix: Air

Date Received: 07/31/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	1	75921	S1K	EET KNX	08/02/23 15:54
Total/NA	Analysis	TO-15		1	75913	S1K	EET KNX	08/01/23 19:02

## Client Sample ID: 1113 NORTH

Lab Sample ID: 500-237402-2

Date Collected: 07/25/23 12:35

Matrix: Air

Date Received: 07/31/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	75913	S1K	EET KNX	08/01/23 19:57

## Client Sample ID: 1111 EAST

Lab Sample ID: 500-237402-3

Date Collected: 07/25/23 13:23

Matrix: Air

Date Received: 07/31/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	75913	S1K	EET KNX	08/01/23 20:48

### Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Accreditation/Certification Summary

Client: SCS Engineers  
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

## Laboratory: Eurofins Knoxville

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-23

- 1
- 2
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- 12
- 13
- 14
- 15
- 16

Eurofins TestAmerica, Knoxville  
5815 Middlebrook Pike

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315

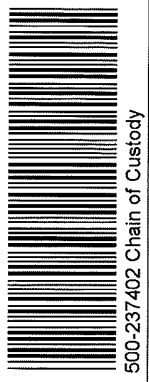
# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.



Environmental Testing  
TestAmerica

Client Project Information		Client Project Manager: <u>Betty Seba</u>		Samples Collected By: <u>Robert Langdon</u>		COC No. _____										
Company Name: <u>SSS Engineers</u>		Phone: <u>608 224 2830</u>		TALS Project #: _____		of _____ COCs										
Address: <u>2830 Dairy Dr W</u>		Email: <u>bseba@sssengineers.com</u>		For Lab Use Only:												
City/State/Zip: <u>Madison, WI</u>		Site Contact: _____		Walk-in Client:												
Phone: <u>608 212 7795</u>		Tel/Fax: _____		Lab Sampling:												
FAX: _____		Analysis Turnaround Time: _____		Job / SDG No.: _____		(See below for Add'l Items)										
Project Name: <u>Northgate - 2023 slope</u>		Standard (Specific): <u>Standard</u>		TO-15 Standard / Low Level: <u>X</u>		Sample Specific Notes:										
Site/Location: <u>Madison, WI</u>		Rush (Specify): _____		TO-15 SIM: <u>X</u>												
P O # _____																
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)
1113 South	7/25	1117	7/25	1146	-29	-8	7213	2215 291 09974 X			X					
1113 North	↓	1206	↓	1235	-28	-6	10905	2400201 X			X					
111 East	↓	1305	↓	1323	28	-3	7450	2400201 X			X					
CUSTOMER SEALS INTACT																
RECEIVED AMBIENT																
DND 7-31-23																
1 BOX PDX# 6471414141632 G																
3 CANIS / 3 FLANS (R)																
		Start Stop	Interior	Temperature (Fahrenheit)												
		Start Stop	Interior	Pressure (Inches of Hg)												
Special Instructions/QC Requirements & Comments: <u>*70-15 for PCE, TCE, cis 1,2 DCE, Trans 1,2 DCE, and vinyl chloride only</u>																
Samples Shipped by: <u>Robert Langdon</u>		Date / Time: <u>7/25/23 1715</u>	Samples Received by: <u>Robert Langdon</u>		Date / Time: <u>7/25/23 14:00</u>											
Samples Relinquished by: <u>Robert Langdon</u>		Date / Time: <u>7/25/23 1715</u>	Received by: _____		Date / Time: _____											
Relinquished by: _____		Date / Time: _____	Received by: _____		Date / Time: _____											
Lab Use Only: _____		Shipper Name: _____		Opened by: _____		Condition: _____										



500-237402 Chain of Custody



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/				
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Containers, Broken	
3. The coolers/containers custody seal if present, is it intact?	/			<input checked="" type="checkbox"/> Checked in lab <input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : _____ Correction factor: _____	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/				
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: <u>50006561</u> PM Instructions: _____					
Sample Receiving Associate: <u>[Signature]</u> Date: <u>7-31-23</u>					







FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1  
 Matrix: Air Lab File ID: GG03L32420.D  
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10  
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-5 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.040	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.16	
106-93-4	1,2-Dibromoethane	ND		0.080	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	ND		0.16	
106-99-0	1,3-Butadiene	ND		0.16	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
90-12-0	1-Methylnaphthalene	ND		1.0	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-93-3	2-Butanone	ND		0.32	
95-49-8	2-Chlorotoluene	ND		0.16	
591-78-6	2-Hexanone	ND		0.20	
78-78-4	2-Methylbutane	ND		0.20	
91-57-6	2-Methylnaphthalene	ND		1.0	
107-83-5	2-Methylpentane	ND		0.080	
107-05-1	3-Chloroprene	ND		0.080	

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1  
 Matrix: Air Lab File ID: GG03L32420.D  
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10  
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-5 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
622-96-8	4-Ethyltoluene	ND		0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20
67-64-1	Acetone	ND		2.0
75-05-8	Acetonitrile	ND		0.40
107-02-8	Acrolein	ND		0.40
107-13-1	Acrylonitrile	ND		0.80
98-83-9	Alpha Methyl Styrene	ND		0.16
71-43-2	Benzene	ND		0.080
100-44-7	Benzyl chloride	ND		0.16
75-27-4	Bromodichloromethane	ND		0.080
75-25-2	Bromoform	ND		0.080
74-83-9	Bromomethane	ND		0.080
106-97-8	Butane	ND		0.16
75-15-0	Carbon disulfide	ND		0.20
56-23-5	Carbon tetrachloride	ND		0.032
108-90-7	Chlorobenzene	ND		0.080
75-45-6	Chlorodifluoromethane	ND		0.080
75-00-3	Chloroethane	ND		0.080
67-66-3	Chloroform	ND		0.080
74-87-3	Chloromethane	ND		0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.040
10061-01-5	cis-1,3-Dichloropropene	ND		0.080
98-82-8	Cumene	ND		0.16
110-82-7	Cyclohexane	ND		0.20
124-48-1	Dibromochloromethane	ND		0.080
74-95-3	Dibromomethane	ND		0.16
75-71-8	Dichlorodifluoromethane	ND		0.080
64-17-5	Ethanol	ND		2.0
141-78-6	Ethyl acetate	ND		0.80
60-29-7	Ethyl ether	ND		0.80
100-41-4	Ethylbenzene	ND		0.080
87-68-3	Hexachlorobutadiene	ND		0.080
110-54-3	Hexane	ND		0.20
496-11-7	Indane	ND		0.080

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1  
 Matrix: Air Lab File ID: GG03L32420.D  
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10  
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-5 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-13-6	Indene	ND		0.16
67-63-0	Isopropyl alcohol	ND		0.80
80-62-6	Methyl methacrylate	ND		0.20
1634-04-4	Methyl tert-butyl ether	ND		0.16
108-87-2	Methylcyclohexane	ND		0.080
75-09-2	Methylene Chloride	ND		0.40
179601-23-1	m-Xylene & p-Xylene	ND		0.080
91-20-3	Naphthalene	ND		0.20
104-51-8	n-Butylbenzene	ND		0.16
124-18-5	n-Decane	ND		0.40
112-40-3	n-Dodecane	ND		0.40
142-82-5	n-Heptane	ND		0.20
111-84-2	n-Nonane	ND		0.20
111-65-9	n-Octane	ND		0.16
103-65-1	N-Propylbenzene	ND		0.16
95-47-6	o-Xylene	ND		0.080
99-87-6	p-Cymene	ND		0.080
109-66-0	Pentane	ND		0.40
115-07-1	Propene	ND		1.0
135-98-8	sec-Butylbenzene	ND		0.16
100-42-5	Styrene	ND		0.080
75-65-0	tert-Butanol	ND		0.32
98-06-6	tert-Butylbenzene	ND		0.20
127-18-4	Tetrachloroethene	ND		0.040
109-99-9	Tetrahydrofuran	ND		0.40
110-02-1	Thiophene	ND		0.080
108-88-3	Toluene	ND		0.12
156-60-5	trans-1,2-Dichloroethene	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	ND		0.080
79-01-6	Trichloroethene	ND		0.036
75-69-4	Trichlorofluoromethane	ND		0.080
1120-21-4	Undecane	ND		0.40
108-05-4	Vinyl acetate	ND		0.40
593-60-2	Vinyl bromide	ND		0.080

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1  
 Matrix: Air Lab File ID: GG03L32420.D  
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10  
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-5 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-01-4	Vinyl chloride	ND		0.040	



FORM I  
 AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET  
 TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Knoxville Job No.: 140-32420-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1  
 Matrix: Air Lab File ID: GG03L32420.D  
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10  
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-5 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
488-23-3	1,2,3,4-Tetramethylbenzene TIC		ND		
527-53-7	1,2,3,5-Tetramethylbenzene TIC		ND		
934-80-5	1,2-Dimethyl-4-Ethylbenzene TIC		ND		
872-55-9	2-Ethylthiophene TIC		ND		
554-14-3	2-Methylthiophene TIC		ND		
616-44-4	3-Methylthiophene TIC		ND		
95-15-8	Benzo(b)thiophene TIC		ND		

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D  
 Lims ID: 140-32420-A-1  
 Client ID: 11191  
 Sample Type: Client  
 Inject. Date: 03-Jul-2023 15:49:30 ALS Bottle#: 1 Worklist Smp#: 4  
 Purge Vol: 500.000 mL Dil. Factor: 1.0000  
 Sample Info: 140-0028655-004  
 Misc. Info.: 11191  
 Operator ID: Instrument ID: MG  
 Method: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\MG\_TO15.m  
 Limit Group: MSA TO14A\_15 Routine ICAL  
 Last Update: 04-Jul-2023 13:02:32 Calib Date: 06-Jun-2023 01:39:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\MG\20230605-28306.b\GF05IC07.D  
 Column 1 : RTX-5 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX1642

First Level Reviewer: khachitpongpanits

Date: 04-Jul-2023 13:02:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.354	9.354	0.000	72	175672	3.76	
* 2 1,4-Difluorobenzene	114	11.533	11.533	0.000	94	959834	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.000	87	787664	3.92	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.858	17.885	-0.027	91	616381	3.55	
23 Acetone	58	5.671	5.660	0.011	99	25245	0.9471	
31 Methylene Chloride	84	6.674	6.674	0.000	84	13272	0.2163	
39 2-Butanone (MEK)	72	8.556	8.540	0.016	93	2498	0.0888	
51 n-Butanol	31	10.929	10.907	0.022	84	1835	0.2173	
61 1,4-Dioxane	88	12.471	12.460	0.011	89	3623	0.1574	
115 2-Methylnaphthalene	142	22.420	22.415	0.005	91	466	0.0103	7

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

40MXISSUR\_00003

Amount Added: 40.00

Units: mL

Run Reagent

Euofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D

Injection Date: 03-Jul-2023 15:49:30

Instrument ID: MG

Operator ID:

Lims ID: 140-32420-A-1

Lab Sample ID: 140-32420-1

Worklist Smp#: 4

Client ID: 11191

Purge Vol: 500.000 mL

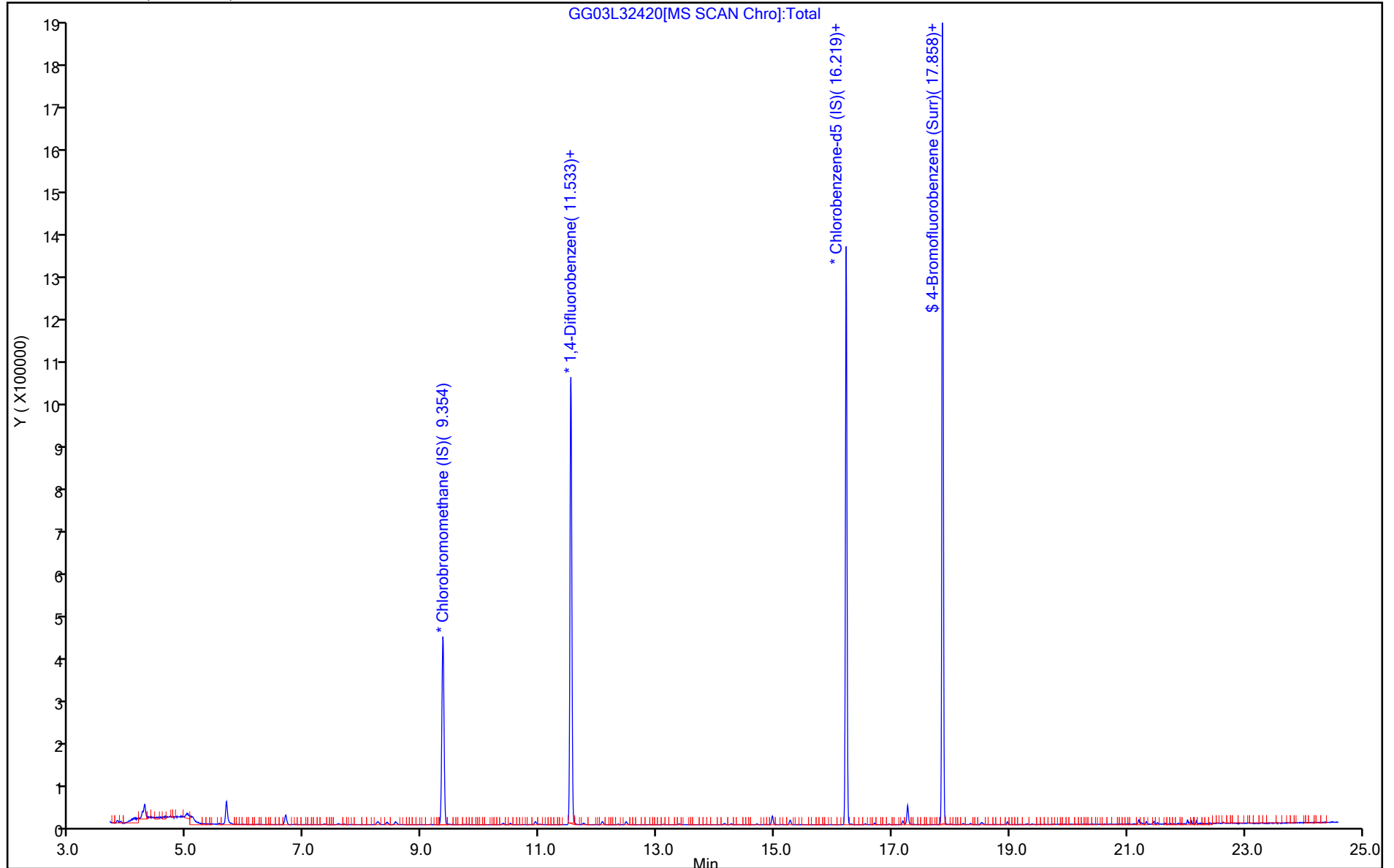
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MG\_TO15

Limit Group: MSA TO14A\_15 Routine ICAL

Column: RTX-5 (0.32 mm)



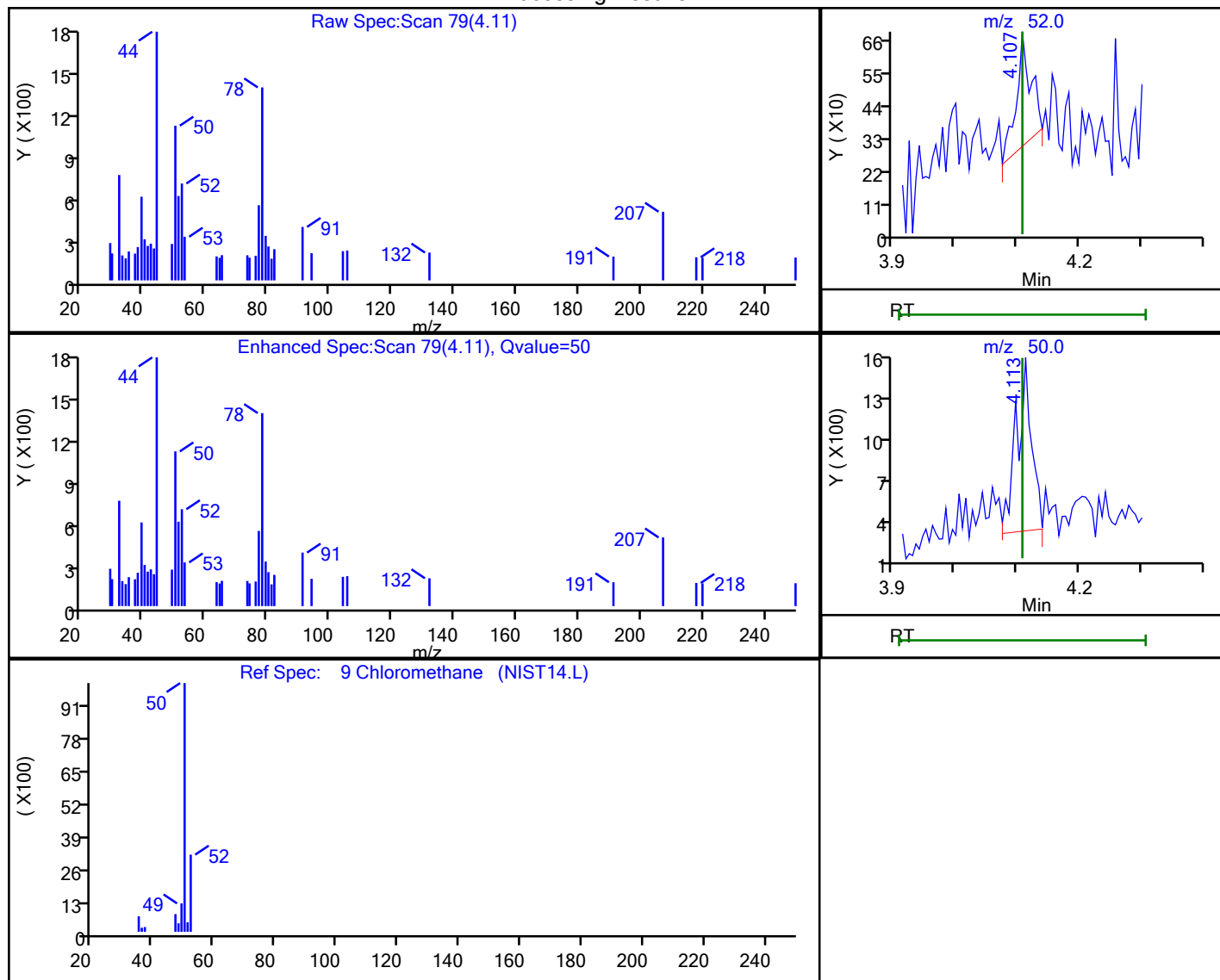


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D  
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG  
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1  
 Client ID: 11191  
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4  
 Purge Vol: 500.000 mL Dil. Factor: 1.0000  
 Method: MG\_TO15 Limit Group: MSA TO14A\_15 Routine ICAL  
 Column: RTX-5 ( 0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.11	52.00	619	0.075916
4.11	50.00	2095	

Reviewer: khachitpongpanits, 04-Jul-2023 13:01:54 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

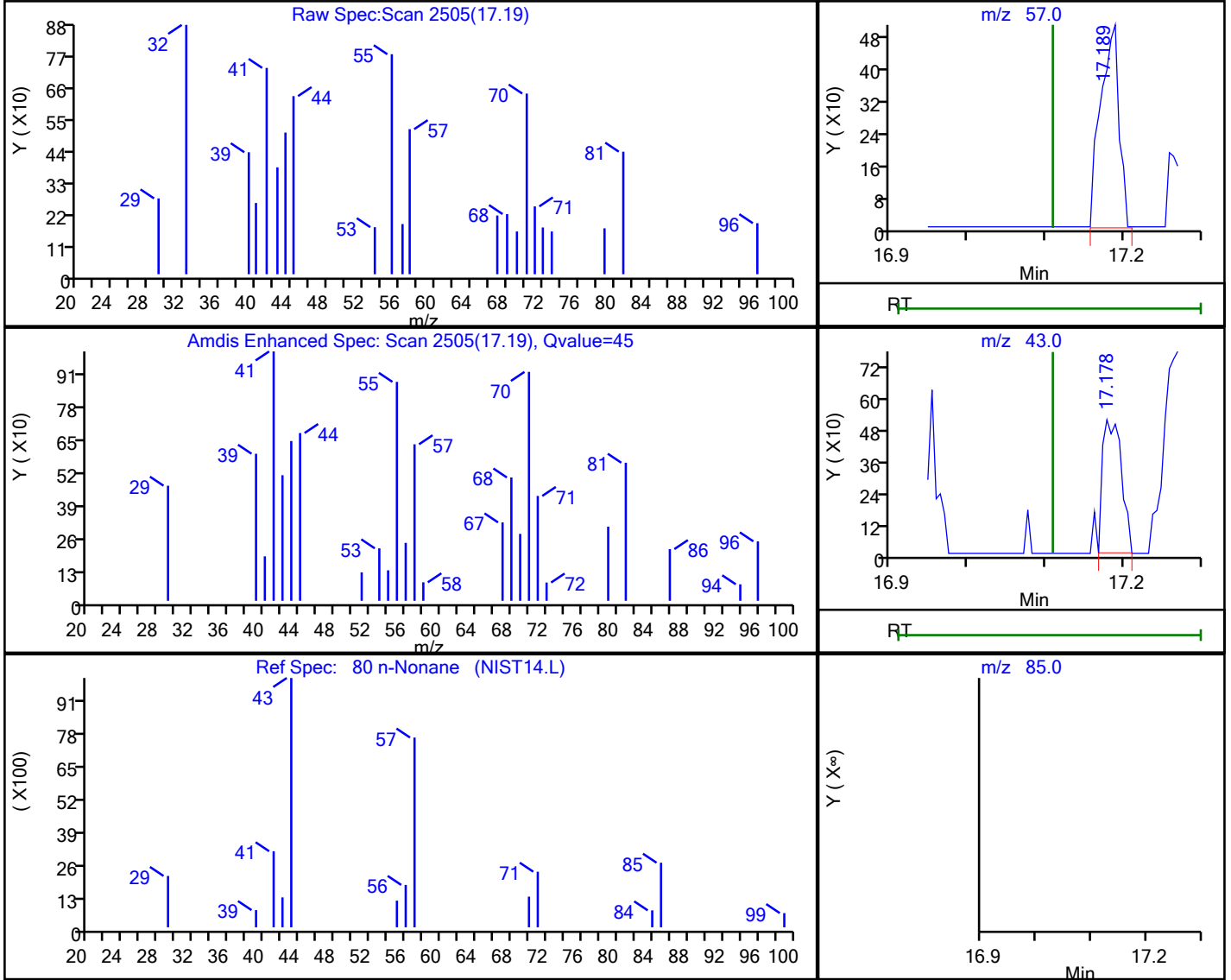
Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D  
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG  
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1  
 Client ID: 11191  
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4  
 Purge Vol: 500.000 mL Dil. Factor: 1.0000  
 Method: MG\_TO15 Limit Group: MSA TO14A\_15 Routine ICAL  
 Column: RTX-5 ( 0.32 mm) Detector MS SCAN

80 n-Nonane, CAS: 111-84-2

Processing Results



RT	Mass	Response	Amount
17.19	57.00	840	0.071724
17.18	43.00	870	
17.11	85.00	0	

Reviewer: khachitpongpanits, 04-Jul-2023 13:02:25 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

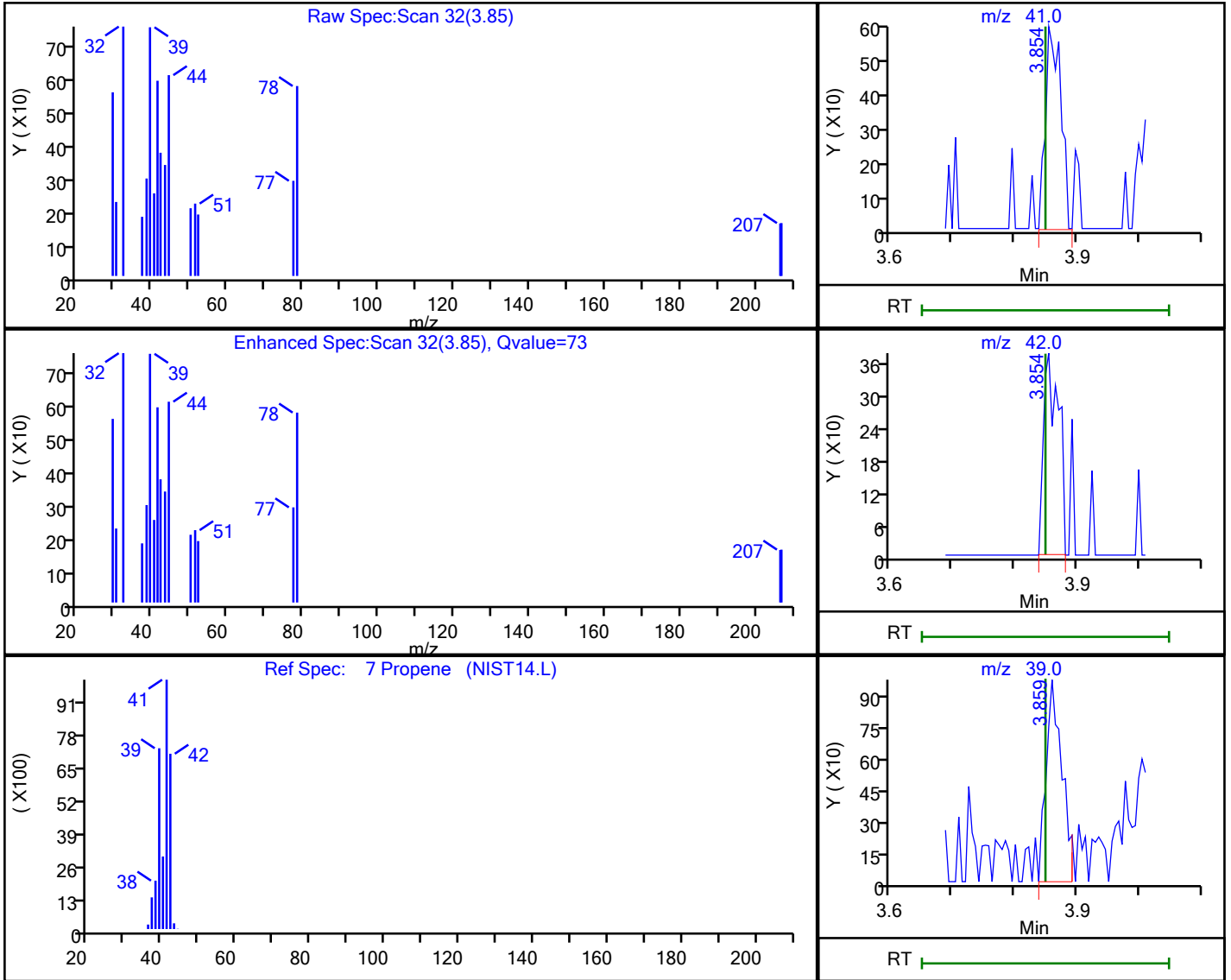
Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D  
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG  
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1  
 Client ID: 11191  
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4  
 Purge Vol: 500.000 mL Dil. Factor: 1.0000  
 Method: MG\_TO15 Limit Group: MSA TO14A\_15 Routine ICAL  
 Column: RTX-5 ( 0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
3.85	41.00	1024	0.024327
3.85	42.00	634	
3.86	39.00	1762	

Reviewer: khachitpongpanits, 04-Jul-2023 13:01:50 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

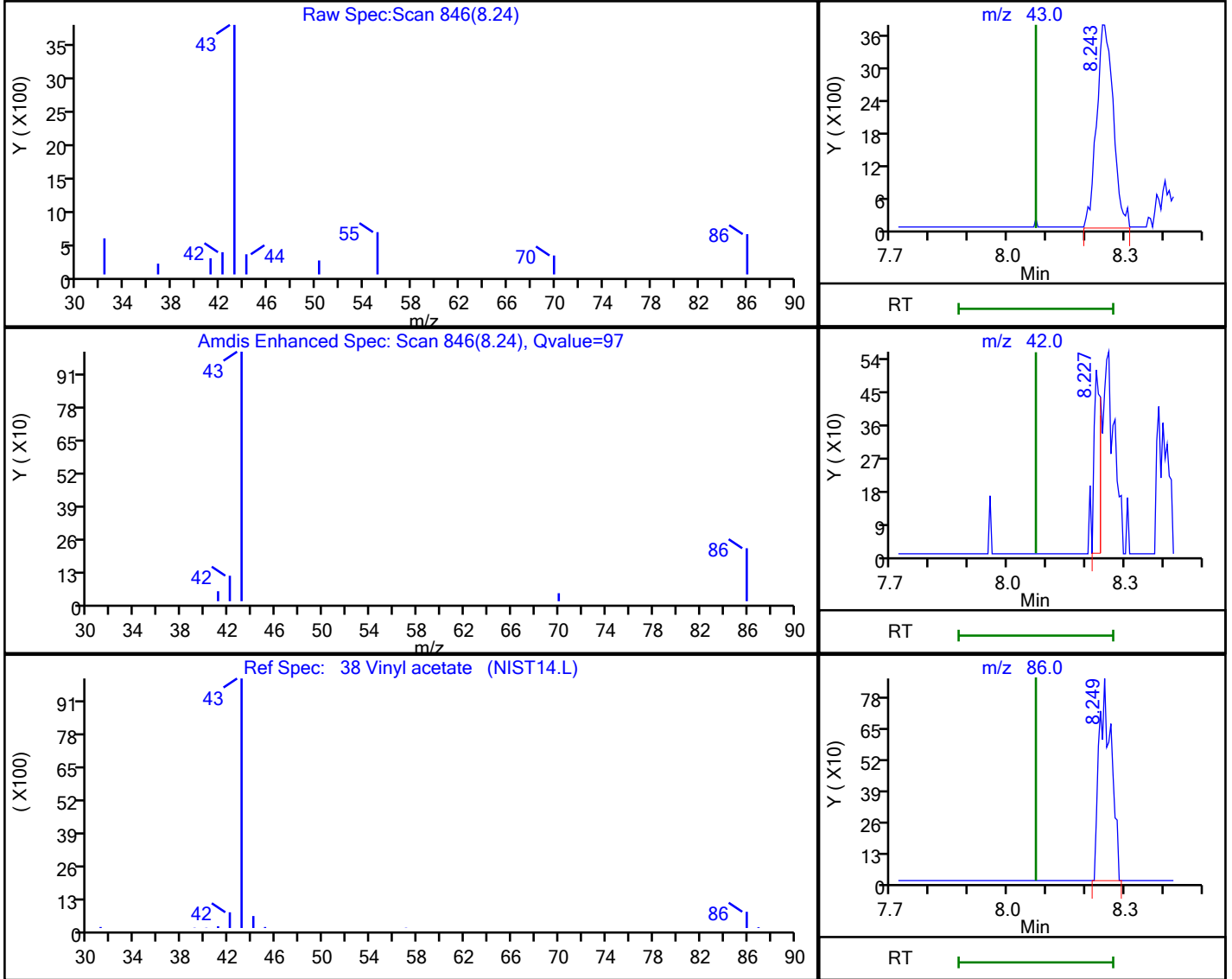


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D  
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG  
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1  
 Client ID: 11191  
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4  
 Purge Vol: 500.000 mL Dil. Factor: 1.0000  
 Method: MG\_TO15 Limit Group: MSA TO14A\_15 Routine ICAL  
 Column: RTX-5 ( 0.32 mm) Detector MS SCAN

38 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
8.24	43.00	11041	0.122522
8.23	42.00	557	
8.25	86.00	1878	

Reviewer: khachitpongpanits, 04-Jul-2023 13:02:11 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



July 06, 2023

Betty Socha  
SCS ENGINEERS  
2830 Dairy Drive  
Madison, WI 53718

RE: Project: 25211374.54 NORTHGATE  
Pace Project No.: 40264316

Dear Betty Socha:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,

A handwritten signature in cursive script that reads "Tod Noltemeyer".

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

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40264316001	MW-6	Water	06/26/23 10:35	06/27/23 09:45
40264316002	MW-6R	Water	06/26/23 10:45	06/27/23 09:45
40264316003	MW-12R	Water	06/26/23 09:00	06/27/23 09:45
40264316004	MW-13	Water	06/26/23 11:50	06/27/23 09:45
40264316005	TRIP BLANK	Water	06/26/23 00:00	06/27/23 09:45

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 25211374.54 NORTHGATE  
Pace Project No.: 40264316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40264316001	MW-6	EPA 8260	EIB	64	PASI-G
40264316002	MW-6R	EPA 8260	EIB	64	PASI-G
40264316003	MW-12R	EPA 8260	EIB	64	PASI-G
40264316004	MW-13	EPA 8260	EIB	64	PASI-G
40264316005	TRIP BLANK	EPA 8260	EIB	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40264316001</b>	<b>MW-6</b>					
EPA 8260	Chloromethane	13.5	ug/L	5.0	06/29/23 14:03	
EPA 8260	Tetrachloroethene	8.4	ug/L	1.0	06/29/23 14:03	
EPA 8260	Trichloroethene	0.61J	ug/L	1.0	06/29/23 14:03	
<b>40264316002</b>	<b>MW-6R</b>					
EPA 8260	Tetrachloroethene	0.90J	ug/L	1.0	06/29/23 11:46	
<b>40264316003</b>	<b>MW-12R</b>					
EPA 8260	Tetrachloroethene	3.8	ug/L	1.0	06/29/23 12:05	
<b>40264316004</b>	<b>MW-13</b>					
EPA 8260	Tetrachloroethene	6.0	ug/L	1.0	06/29/23 12:25	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-6 Lab ID: 40264316001 Collected: 06/26/23 10:35 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/23 14:03	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 14:03	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		06/29/23 14:03	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 14:03	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		06/29/23 14:03	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/23 14:03	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 14:03	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/23 14:03	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/23 14:03	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/23 14:03	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 14:03	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/23 14:03	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		06/29/23 14:03	67-66-3	
Chloromethane	13.5	ug/L	5.0	1.6	1		06/29/23 14:03	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 14:03	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 14:03	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/23 14:03	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/23 14:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/23 14:03	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/23 14:03	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 14:03	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 14:03	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/23 14:03	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/23 14:03	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 14:03	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/23 14:03	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/23 14:03	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/23 14:03	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/23 14:03	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/23 14:03	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/23 14:03	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		06/29/23 14:03	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/23 14:03	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		06/29/23 14:03	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		06/29/23 14:03	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 14:03	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 14:03	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/23 14:03	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/23 14:03	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/23 14:03	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/23 14:03	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 14:03	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		06/29/23 14:03	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 14:03	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/23 14:03	100-42-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-6 Lab ID: 40264316001 Collected: 06/26/23 10:35 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/23 14:03	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/23 14:03	79-34-5	
Tetrachloroethene	8.4	ug/L	1.0	0.41	1		06/29/23 14:03	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/23 14:03	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/23 14:03	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/23 14:03	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 14:03	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		06/29/23 14:03	79-00-5	
Trichloroethene	0.61J	ug/L	1.0	0.32	1		06/29/23 14:03	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 14:03	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		06/29/23 14:03	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/23 14:03	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 14:03	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/23 14:03	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/23 14:03	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/23 14:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		06/29/23 14:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/29/23 14:03	2199-69-1	
Toluene-d8 (S)	106	%	70-130		1		06/29/23 14:03	2037-26-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-6R Lab ID: 40264316002 Collected: 06/26/23 10:45 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/23 11:46	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 11:46	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		06/29/23 11:46	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 11:46	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		06/29/23 11:46	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/23 11:46	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 11:46	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/23 11:46	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/23 11:46	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/23 11:46	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 11:46	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/23 11:46	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		06/29/23 11:46	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/23 11:46	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 11:46	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 11:46	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/23 11:46	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/23 11:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/23 11:46	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/23 11:46	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 11:46	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 11:46	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/23 11:46	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/23 11:46	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 11:46	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/23 11:46	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/23 11:46	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/23 11:46	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/23 11:46	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/23 11:46	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/23 11:46	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		06/29/23 11:46	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/23 11:46	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		06/29/23 11:46	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		06/29/23 11:46	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 11:46	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 11:46	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/23 11:46	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/23 11:46	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/23 11:46	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/23 11:46	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 11:46	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		06/29/23 11:46	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 11:46	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/23 11:46	100-42-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-6R Lab ID: 40264316002 Collected: 06/26/23 10:45 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/23 11:46	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/23 11:46	79-34-5	
Tetrachloroethene	0.90J	ug/L	1.0	0.41	1		06/29/23 11:46	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/23 11:46	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/23 11:46	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/23 11:46	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 11:46	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		06/29/23 11:46	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/23 11:46	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 11:46	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		06/29/23 11:46	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/23 11:46	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 11:46	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/23 11:46	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/23 11:46	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/23 11:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		06/29/23 11:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		06/29/23 11:46	2199-69-1	
Toluene-d8 (S)	111	%	70-130		1		06/29/23 11:46	2037-26-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-12R Lab ID: 40264316003 Collected: 06/26/23 09:00 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/23 12:05	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 12:05	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		06/29/23 12:05	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 12:05	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		06/29/23 12:05	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/23 12:05	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 12:05	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/23 12:05	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/23 12:05	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/23 12:05	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 12:05	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/23 12:05	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		06/29/23 12:05	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/23 12:05	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 12:05	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 12:05	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/23 12:05	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/23 12:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/23 12:05	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/23 12:05	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 12:05	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 12:05	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/23 12:05	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/23 12:05	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 12:05	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/23 12:05	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/23 12:05	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/23 12:05	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/23 12:05	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/23 12:05	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/23 12:05	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		06/29/23 12:05	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/23 12:05	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		06/29/23 12:05	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		06/29/23 12:05	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 12:05	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 12:05	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/23 12:05	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/23 12:05	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/23 12:05	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/23 12:05	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 12:05	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		06/29/23 12:05	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 12:05	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/23 12:05	100-42-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-12R Lab ID: 40264316003 Collected: 06/26/23 09:00 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/23 12:05	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/23 12:05	79-34-5	
Tetrachloroethene	3.8	ug/L	1.0	0.41	1		06/29/23 12:05	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/23 12:05	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/23 12:05	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/23 12:05	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 12:05	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		06/29/23 12:05	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/23 12:05	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 12:05	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		06/29/23 12:05	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/23 12:05	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 12:05	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/23 12:05	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/23 12:05	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/23 12:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		06/29/23 12:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		06/29/23 12:05	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		06/29/23 12:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-13 Lab ID: 40264316004 Collected: 06/26/23 11:50 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/23 12:25	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 12:25	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		06/29/23 12:25	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 12:25	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		06/29/23 12:25	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/23 12:25	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 12:25	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/23 12:25	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/23 12:25	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/23 12:25	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 12:25	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/23 12:25	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		06/29/23 12:25	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/23 12:25	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 12:25	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 12:25	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/23 12:25	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/23 12:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/23 12:25	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/23 12:25	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 12:25	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 12:25	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/23 12:25	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/23 12:25	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 12:25	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/23 12:25	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/23 12:25	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/23 12:25	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/23 12:25	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/23 12:25	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/23 12:25	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		06/29/23 12:25	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/23 12:25	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		06/29/23 12:25	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		06/29/23 12:25	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 12:25	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 12:25	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/23 12:25	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/23 12:25	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/23 12:25	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/23 12:25	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 12:25	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		06/29/23 12:25	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 12:25	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/23 12:25	100-42-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: MW-13 Lab ID: 40264316004 Collected: 06/26/23 11:50 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/23 12:25	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/23 12:25	79-34-5	
Tetrachloroethene	6.0	ug/L	1.0	0.41	1		06/29/23 12:25	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/23 12:25	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/23 12:25	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/23 12:25	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 12:25	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		06/29/23 12:25	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/23 12:25	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 12:25	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		06/29/23 12:25	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/23 12:25	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 12:25	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/23 12:25	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/23 12:25	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/23 12:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/29/23 12:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/29/23 12:25	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		06/29/23 12:25	2037-26-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: TRIP BLANK Lab ID: 40264316005 Collected: 06/26/23 00:00 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/23 11:26	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 11:26	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		06/29/23 11:26	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 11:26	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		06/29/23 11:26	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/23 11:26	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 11:26	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/23 11:26	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/23 11:26	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/23 11:26	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/23 11:26	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/23 11:26	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		06/29/23 11:26	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/23 11:26	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 11:26	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/23 11:26	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/23 11:26	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/23 11:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/23 11:26	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/23 11:26	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 11:26	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 11:26	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/23 11:26	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/23 11:26	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 11:26	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/23 11:26	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/23 11:26	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/23 11:26	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/23 11:26	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/23 11:26	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/23 11:26	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		06/29/23 11:26	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/23 11:26	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		06/29/23 11:26	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		06/29/23 11:26	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 11:26	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/23 11:26	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/23 11:26	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/23 11:26	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/23 11:26	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/23 11:26	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/23 11:26	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		06/29/23 11:26	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/23 11:26	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/23 11:26	100-42-5	

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## ANALYTICAL RESULTS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Sample: TRIP BLANK Lab ID: 40264316005 Collected: 06/26/23 00:00 Received: 06/27/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/23 11:26	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/23 11:26	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/29/23 11:26	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/23 11:26	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/23 11:26	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/23 11:26	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/23 11:26	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		06/29/23 11:26	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/23 11:26	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/23 11:26	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		06/29/23 11:26	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/23 11:26	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/23 11:26	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/23 11:26	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/23 11:26	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/23 11:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		06/29/23 11:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		06/29/23 11:26	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		06/29/23 11:26	2037-26-5	

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## QUALITY CONTROL DATA

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

QC Batch: 448543

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40264316002, 40264316003, 40264316004, 40264316005

METHOD BLANK: 2576037

Matrix: Water

Associated Lab Samples: 40264316002, 40264316003, 40264316004, 40264316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/28/23 16:16	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/28/23 16:16	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/28/23 16:16	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	06/28/23 16:16	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/28/23 16:16	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/28/23 16:16	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/28/23 16:16	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/28/23 16:16	
1,2,3-Trichloropropane	ug/L	<0.56	1.0	06/28/23 16:16	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/28/23 16:16	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/28/23 16:16	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/28/23 16:16	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/28/23 16:16	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/28/23 16:16	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/28/23 16:16	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/28/23 16:16	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/28/23 16:16	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/28/23 16:16	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/28/23 16:16	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/28/23 16:16	
2,2-Dichloropropane	ug/L	<0.42	1.0	06/28/23 16:16	
2-Chlorotoluene	ug/L	<0.89	5.0	06/28/23 16:16	
4-Chlorotoluene	ug/L	<0.89	5.0	06/28/23 16:16	
Benzene	ug/L	<0.30	1.0	06/28/23 16:16	
Bromobenzene	ug/L	<0.36	1.0	06/28/23 16:16	
Bromochloromethane	ug/L	<0.36	1.0	06/28/23 16:16	
Bromodichloromethane	ug/L	<0.42	1.0	06/28/23 16:16	
Bromoform	ug/L	<0.43	1.0	06/28/23 16:16	
Bromomethane	ug/L	<1.2	5.0	06/28/23 16:16	
Carbon tetrachloride	ug/L	<0.37	1.0	06/28/23 16:16	
Chlorobenzene	ug/L	<0.86	1.0	06/28/23 16:16	
Chloroethane	ug/L	<1.4	5.0	06/28/23 16:16	
Chloroform	ug/L	<0.50	5.0	06/28/23 16:16	
Chloromethane	ug/L	<1.6	5.0	06/28/23 16:16	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/28/23 16:16	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	06/28/23 16:16	
Dibromochloromethane	ug/L	<2.6	5.0	06/28/23 16:16	
Dibromomethane	ug/L	<0.99	5.0	06/28/23 16:16	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/28/23 16:16	
Diisopropyl ether	ug/L	<1.1	5.0	06/28/23 16:16	

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

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### QUALITY CONTROL DATA

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

METHOD BLANK: 2576037

Matrix: Water

Associated Lab Samples: 40264316002, 40264316003, 40264316004, 40264316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/28/23 16:16	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/28/23 16:16	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/28/23 16:16	
m&p-Xylene	ug/L	<0.70	2.0	06/28/23 16:16	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/28/23 16:16	
Methylene Chloride	ug/L	<0.32	5.0	06/28/23 16:16	
n-Butylbenzene	ug/L	<0.86	1.0	06/28/23 16:16	
n-Propylbenzene	ug/L	<0.35	1.0	06/28/23 16:16	
Naphthalene	ug/L	<1.9	5.0	06/28/23 16:16	
o-Xylene	ug/L	<0.35	1.0	06/28/23 16:16	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/28/23 16:16	
sec-Butylbenzene	ug/L	<0.42	1.0	06/28/23 16:16	
Styrene	ug/L	<0.36	1.0	06/28/23 16:16	
tert-Butylbenzene	ug/L	<0.59	1.0	06/28/23 16:16	
Tetrachloroethene	ug/L	<0.41	1.0	06/28/23 16:16	
Toluene	ug/L	<0.29	1.0	06/28/23 16:16	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/28/23 16:16	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	06/28/23 16:16	
Trichloroethene	ug/L	<0.32	1.0	06/28/23 16:16	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/28/23 16:16	
Vinyl chloride	ug/L	<0.17	1.0	06/28/23 16:16	
1,2-Dichlorobenzene-d4 (S)	%	108	70-130	06/28/23 16:16	
4-Bromofluorobenzene (S)	%	110	70-130	06/28/23 16:16	
Toluene-d8 (S)	%	109	70-130	06/28/23 16:16	

LABORATORY CONTROL SAMPLE: 2576038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	56.6	113	69-130	
1,1,2-Trichloroethane	ug/L	50	53.0	106	70-130	
1,1-Dichloroethane	ug/L	50	55.5	111	70-130	
1,1-Dichloroethene	ug/L	50	47.3	95	74-131	
1,2,4-Trichlorobenzene	ug/L	50	45.0	90	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.5	103	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	52.7	105	70-137	
1,2-Dichloropropane	ug/L	50	55.5	111	80-121	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	51.2	102	70-130	
Bromoform	ug/L	50	51.2	102	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

LABORATORY CONTROL SAMPLE: 2576038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	44.1	88	21-147	
Carbon tetrachloride	ug/L	50	61.9	124	80-146	
Chlorobenzene	ug/L	50	52.4	105	70-130	
Chloroethane	ug/L	50	49.5	99	52-165	
Chloroform	ug/L	50	50.7	101	80-123	
Chloromethane	ug/L	50	42.4	85	51-122	
cis-1,2-Dichloroethene	ug/L	50	46.3	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	24.4	49	25-121	
Ethylbenzene	ug/L	50	52.9	106	80-120	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Methylene Chloride	ug/L	50	50.2	100	70-130	
o-Xylene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	60.0	120	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	52.5	105	80-120	
trans-1,2-Dichloroethene	ug/L	50	47.1	94	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.0	106	70-130	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	43.5	87	65-160	
Vinyl chloride	ug/L	50	44.2	88	63-134	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576511 2576512

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40264287001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.30	50	50	54.0	52.1	108	104	70-134	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	61.1	57.3	122	115	61-135	6	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	58.9	54.9	118	110	70-130	7	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	58.2	58.1	116	116	70-130	0	20	
1,1-Dichloroethene	ug/L	7.4	50	50	56.1	55.5	97	96	71-130	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.7	45.8	95	92	68-131	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	55.2	53.0	110	106	51-141	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	54.3	53.5	109	107	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	52.6	51.1	105	102	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	57.5	55.9	115	112	70-137	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	56.9	57.7	114	115	80-121	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.7	50.7	105	101	70-130	4	20	

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**QUALITY CONTROL DATA**

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576511 2576512													
Parameter	Units	40264287001		MS	MSD	2576512		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result						
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50.8	49.1	102	98	70-130	3	20		
Benzene	ug/L	1.8	50	50	55.9	54.8	108	106	70-130	2	20		
Bromodichloromethane	ug/L	<0.42	50	50	56.8	55.7	114	111	70-130	2	20		
Bromoform	ug/L	<0.43	50	50	58.8	56.1	118	112	70-133	5	20		
Bromomethane	ug/L	<1.2	50	50	52.0	51.0	104	102	21-149	2	22		
Carbon tetrachloride	ug/L	<0.37	50	50	64.5	63.6	129	127	80-146	1	20		
Chlorobenzene	ug/L	<0.86	50	50	56.1	53.5	112	107	70-130	5	20		
Chloroethane	ug/L	<1.4	50	50	49.7	48.7	99	97	52-165	2	20		
Chloroform	ug/L	<0.50	50	50	52.9	51.5	106	103	80-123	3	20		
Chloromethane	ug/L	<1.6	50	50	47.5	41.8	95	84	42-125	13	20		
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	57.9	55.4	116	111	70-130	4	20		
Dibromochloromethane	ug/L	<2.6	50	50	57.5	56.3	115	113	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	24.4	23.6	49	47	25-121	3	20		
Ethylbenzene	ug/L	<0.33	50	50	57.2	54.6	114	109	80-121	5	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.5	52.3	107	105	70-130	2	20		
m&p-Xylene	ug/L	<0.70	100	100	107	104	107	104	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	52.7	52.0	105	104	70-130	1	20		
Methylene Chloride	ug/L	<0.32	50	50	52.6	54.0	105	108	70-130	3	20		
o-Xylene	ug/L	<0.35	50	50	53.4	50.9	107	102	70-130	5	20		
Styrene	ug/L	<0.36	50	50	64.8	62.7	130	125	70-132	3	20		
Tetrachloroethene	ug/L	<0.41	50	50	53.5	50.1	107	100	70-130	6	20		
Toluene	ug/L	2.3	50	50	57.6	55.4	111	106	80-120	4	20		
trans-1,2-Dichloroethene	ug/L	4.5	50	50	53.8	52.7	99	96	70-130	2	20		
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	59.9	58.2	120	116	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	44.4	43.8	89	88	65-160	2	20		
Vinyl chloride	ug/L	8.4	50	50	53.3	52.9	90	89	60-137	1	20		
1,2-Dichlorobenzene-d4 (S)	%						103	102	70-130				
4-Bromofluorobenzene (S)	%						109	105	70-130				
Toluene-d8 (S)	%						110	108	70-130				

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## QUALITY CONTROL DATA

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

QC Batch: 448600

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40264316001

METHOD BLANK: 2576622

Matrix: Water

Associated Lab Samples: 40264316001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/29/23 07:50	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/29/23 07:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/29/23 07:50	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	06/29/23 07:50	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/29/23 07:50	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/29/23 07:50	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/29/23 07:50	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/29/23 07:50	
1,2,3-Trichloropropane	ug/L	<0.56	1.0	06/29/23 07:50	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/29/23 07:50	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/29/23 07:50	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/29/23 07:50	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/29/23 07:50	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/29/23 07:50	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/29/23 07:50	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/29/23 07:50	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/29/23 07:50	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/29/23 07:50	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/29/23 07:50	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/29/23 07:50	
2,2-Dichloropropane	ug/L	<0.42	1.0	06/29/23 07:50	
2-Chlorotoluene	ug/L	<0.89	5.0	06/29/23 07:50	
4-Chlorotoluene	ug/L	<0.89	5.0	06/29/23 07:50	
Benzene	ug/L	<0.30	1.0	06/29/23 07:50	
Bromobenzene	ug/L	<0.36	1.0	06/29/23 07:50	
Bromochloromethane	ug/L	<0.36	1.0	06/29/23 07:50	
Bromodichloromethane	ug/L	<0.42	1.0	06/29/23 07:50	
Bromoform	ug/L	<0.43	1.0	06/29/23 07:50	
Bromomethane	ug/L	<1.2	5.0	06/29/23 07:50	
Carbon tetrachloride	ug/L	<0.37	1.0	06/29/23 07:50	
Chlorobenzene	ug/L	<0.86	1.0	06/29/23 07:50	
Chloroethane	ug/L	<1.4	5.0	06/29/23 07:50	
Chloroform	ug/L	<0.50	5.0	06/29/23 07:50	
Chloromethane	ug/L	<1.6	5.0	06/29/23 07:50	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/29/23 07:50	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	06/29/23 07:50	
Dibromochloromethane	ug/L	<2.6	5.0	06/29/23 07:50	
Dibromomethane	ug/L	<0.99	5.0	06/29/23 07:50	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/29/23 07:50	
Diisopropyl ether	ug/L	<1.1	5.0	06/29/23 07:50	

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**QUALITY CONTROL DATA**

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

METHOD BLANK: 2576622

Matrix: Water

Associated Lab Samples: 40264316001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/29/23 07:50	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/29/23 07:50	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/29/23 07:50	
m&p-Xylene	ug/L	<0.70	2.0	06/29/23 07:50	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/29/23 07:50	
Methylene Chloride	ug/L	<0.32	5.0	06/29/23 07:50	
n-Butylbenzene	ug/L	<0.86	1.0	06/29/23 07:50	
n-Propylbenzene	ug/L	<0.35	1.0	06/29/23 07:50	
Naphthalene	ug/L	<1.9	5.0	06/29/23 07:50	
o-Xylene	ug/L	<0.35	1.0	06/29/23 07:50	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/29/23 07:50	
sec-Butylbenzene	ug/L	<0.42	1.0	06/29/23 07:50	
Styrene	ug/L	<0.36	1.0	06/29/23 07:50	
tert-Butylbenzene	ug/L	<0.59	1.0	06/29/23 07:50	
Tetrachloroethene	ug/L	<0.41	1.0	06/29/23 07:50	
Toluene	ug/L	<0.29	1.0	06/29/23 07:50	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/29/23 07:50	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	06/29/23 07:50	
Trichloroethene	ug/L	<0.32	1.0	06/29/23 07:50	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/29/23 07:50	
Vinyl chloride	ug/L	<0.17	1.0	06/29/23 07:50	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	06/29/23 07:50	
4-Bromofluorobenzene (S)	%	108	70-130	06/29/23 07:50	
Toluene-d8 (S)	%	107	70-130	06/29/23 07:50	

LABORATORY CONTROL SAMPLE: 2576623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	59.1	118	69-130	
1,1,2-Trichloroethane	ug/L	50	55.6	111	70-130	
1,1-Dichloroethane	ug/L	50	58.7	117	70-130	
1,1-Dichloroethene	ug/L	50	48.8	98	74-131	
1,2,4-Trichlorobenzene	ug/L	50	44.6	89	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.3	103	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	56.7	113	70-137	
1,2-Dichloropropane	ug/L	50	58.7	117	80-121	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
Benzene	ug/L	50	53.6	107	70-130	
Bromodichloromethane	ug/L	50	54.3	109	70-130	
Bromoform	ug/L	50	55.8	112	70-130	

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**QUALITY CONTROL DATA**

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

LABORATORY CONTROL SAMPLE: 2576623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	47.5	95	21-147	
Carbon tetrachloride	ug/L	50	67.0	134	80-146	
Chlorobenzene	ug/L	50	55.1	110	70-130	
Chloroethane	ug/L	50	50.1	100	52-165	
Chloroform	ug/L	50	54.1	108	80-123	
Chloromethane	ug/L	50	42.7	85	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.3	109	70-130	
Dibromochloromethane	ug/L	50	54.0	108	70-130	
Dichlorodifluoromethane	ug/L	50	22.5	45	25-121	
Ethylbenzene	ug/L	50	56.3	113	80-120	
Isopropylbenzene (Cumene)	ug/L	50	54.1	108	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	70-130	
Methylene Chloride	ug/L	50	52.6	105	70-130	
o-Xylene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	64.0	128	70-130	
Tetrachloroethene	ug/L	50	53.0	106	70-130	
Toluene	ug/L	50	54.9	110	80-120	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.1	112	70-130	
Trichloroethene	ug/L	50	52.3	105	70-130	
Trichlorofluoromethane	ug/L	50	46.4	93	65-160	
Vinyl chloride	ug/L	50	43.5	87	63-134	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577098 2577099

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40264320006 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	4.6	50	50	58.6	60.7	108	112	70-134	4	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	57.2	57.9	114	116	61-135	1	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	54.3	56.2	109	112	70-130	3	20		
1,1-Dichloroethane	ug/L	5.2	50	50	63.4	65.5	117	121	70-130	3	20		
1,1-Dichloroethene	ug/L	0.96J	50	50	47.4	48.2	93	94	71-130	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.8	46.1	90	92	68-131	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	52.2	54.0	104	108	51-141	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.8	51.4	100	103	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.8	52.5	104	105	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	57.7	57.1	115	114	70-137	1	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	57.7	58.4	115	117	80-121	1	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	51.0	52.4	102	105	70-130	3	20		

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**QUALITY CONTROL DATA**

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577098		2577099		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40264320006 Result	MS Spike Conc.	MSD Spike Conc.									
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50.5	50.9	101	102	70-130	1	20		
Benzene	ug/L	<0.30	50	50	53.2	54.7	106	109	70-130	3	20		
Bromodichloromethane	ug/L	<0.42	50	50	54.5	56.1	109	112	70-130	3	20		
Bromoform	ug/L	<0.43	50	50	53.5	55.8	107	112	70-133	4	20		
Bromomethane	ug/L	<1.2	50	50	46.7	49.5	93	99	21-149	6	22		
Carbon tetrachloride	ug/L	<0.37	50	50	67.3	66.7	135	133	80-146	1	20		
Chlorobenzene	ug/L	<0.86	50	50	54.6	55.1	109	110	70-130	1	20		
Chloroethane	ug/L	<1.4	50	50	48.5	50.4	97	101	52-165	4	20		
Chloroform	ug/L	<0.50	50	50	52.7	54.1	105	108	80-123	3	20		
Chloromethane	ug/L	<1.6	50	50	38.0	38.6	76	77	42-125	2	20		
cis-1,2-Dichloroethene	ug/L	7.3	50	50	54.4	58.3	94	102	70-130	7	20		
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	53.0	55.9	106	112	70-130	5	20		
Dibromochloromethane	ug/L	<2.6	50	50	54.1	54.8	108	110	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	17.3	17.3	35	35	25-121	0	20		
Ethylbenzene	ug/L	<0.33	50	50	55.4	56.4	111	113	80-121	2	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	52.5	53.5	105	107	70-130	2	20		
m&p-Xylene	ug/L	<0.70	100	100	104	105	104	105	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50.6	52.8	101	106	70-130	4	20		
Methylene Chloride	ug/L	<0.32	50	50	52.0	54.3	104	109	70-130	4	20		
o-Xylene	ug/L	<0.35	50	50	50.8	52.0	102	104	70-130	2	20		
Styrene	ug/L	<0.36	50	50	62.2	62.5	124	125	70-132	1	20		
Tetrachloroethene	ug/L	<0.41	50	50	51.6	50.7	103	101	70-130	2	20		
Toluene	ug/L	<0.29	50	50	53.4	54.4	107	109	80-120	2	20		
trans-1,2-Dichloroethene	ug/L	1.3	50	50	50.1	51.6	97	101	70-130	3	20		
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	55.9	56.3	112	113	70-130	1	20		
Trichloroethene	ug/L	23.6	50	50	76.1	79.6	105	112	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	43.3	44.0	87	88	65-160	2	20		
Vinyl chloride	ug/L	2.6	50	50	42.7	44.2	80	83	60-137	3	20		
1,2-Dichlorobenzene-d4 (S)	%						103	104	70-130				
4-Bromofluorobenzene (S)	%						109	109	70-130				
Toluene-d8 (S)	%						111	107	70-130				

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

DL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25211374.54 NORTHGATE

Pace Project No.: 40264316

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40264316001	MW-6	EPA 8260	448600		
40264316002	MW-6R	EPA 8260	448543		
40264316003	MW-12R	EPA 8260	448543		
40264316004	MW-13	EPA 8260	448543		
40264316005	TRIP BLANK	EPA 8260	448543		

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or  
MTJL Log-in Number Here

40264316

Company: SCS Engineers Billing Information: 25211374.54, #1

Address: 2830 Dairy Dr, Madison, WI 53718

Report To: Betty Socha Email To: bsocha@scsengineers.com

Copy To: Site Collection Info/Address:

**ALL SHADED AREAS are for LAB USE ONLY**

Container Preservative Type \*\* 3 Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: Northgate State: WI County/City: Done Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET

Phone: 414-897-4253 Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No

Email: eschad@scsengineers.com

Collected By (print): Ethan Schaefer Purchase Order #: DW PWS ID #:           

Collected By (signature): [Signature] Quote #: DW Location Code:           

Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: Rush: [ ] Same Day [ ] Next Day Field Filtered (if applicable): [ ] Yes [ ] No

[ ] Dispose as appropriate [ ] Return [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day Analysis:           

[ ] Archive:            (Expedite Charges Apply)

[ ] Hold:           

Analyses										Lab Profile/Line:
Lab Sample Receipt Checklist:										
Custody Seals Present/Intact Y N NA										
Custody Signatures Present Y N NA										
Collector Signature Present Y N NA										
Bottles Intact Y N NA										
Correct Bot. Caps Y N NA										
Sufficient Volume Y N NA										
Samples Repacked on Ice Y N NA										
VOA Headspace Acceptable Y N NA										
USDA Regulated Soils Y N NA										
Samples in Holding Time Y N NA										
Residual Chlorine Present Y N NA										
Cl Strips: <u>          </u>										
Sample pH Acceptable Y N NA										
pH Strips: <u>          </u>										
Sulfide Present Y N NA										
Lead Acetate Strips: <u>          </u>										

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-6	GW	G	6/26	1035			3	X
MW-6R	GW	G	6/26	1045			3	X
MW-12R	GW	G	6/26	900			3	X
MW-13	GW	G	6/26	1150			3	X
Trip Blank							2	X

LAB USE ONLY:  
Lab Sample # / Comments:

001  
002  
003  
004  
005

Customer Remarks / Special Conditions / Possible Hazards: see SCW

Type of Ice Used: Wet Blue Dry None

Packing Material Used:           

Radchem sample(s) screened (<500 ppm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2839158

Samples received via: 06/27/2023

FEDEX UPS Clear Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:           

Cooler 1 Temp Upon Receipt:            °C

Cooler 1 Therm Corr. Factor:            °C

Cooler 2 Corrected Temp:            °C

Comments:           

Relinquished by/Company: (Signature) [Signature] SCS Date/Time: 6/26/23 1400

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

Relinquished by/Company: (Signature) [Signature] CS Logistics Date/Time: 06/27/23 09:45

Received by/Company: (Signature) [Signature] Matt Vonnahme Pace Date/Time: 06/27/23 09:45

Relinquished by/Company: (Signature) [Signature] Date/Time: 06/27/2023

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

MTJL LAB USE ONLY

Table #:           

Acctnum:           

Template:           

Prelogin:           

PM:           

PP:           

Trip Blank Received: Y N NA

MeOH TSP Other

Non Conformance(s):            Page 26 of 28

YES / NO of: 1

Effective Date: 8/16/2022

Client Name: SCS Engineers

Sample Preservation Receipt Form

Project # 40264316

All containers needing preservation have been checked and noted below  
Lab Lot# of pH paper

Yes  No  N/A

Lab Std #ID of preservation (if pH adjusted)

Initial when completed MJG Date/Time

Pace Lab #	Glass						Plastic						Vials					Jars				General		VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC	GN 1	GN 2	
001																																			2.5 / 5
002																																			2.5 / 5
003																																			2.5 / 5
004																																			2.5 / 5
005																																			2.5 / 5
006																																			2.5 / 5
007																																			2.5 / 5
008																																			2.5 / 5
009																																			2.5 / 5
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015																																			2.5 / 5
016																																			2.5 / 5
017																																			2.5 / 5
018																																			2.5 / 5
019																																			2.5 / 5
020																																			2.5 / 5

MJG  
06/27/2023

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: SCS Engineers

WO#: **40264316**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: \_\_\_\_\_

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - 128 Type of Ice:  Wet  Blue  Dry  None  Meltwater Only

Cooler Temperature Uncorr: 0.5 / Corr: 0.5

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 06/27/2023 Initials: MJA  
 Labeled By Initials: R.A

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Hotel W</u>		<u>sample point 001 time was 10:40 on the vial however it was 10:35 on the COC. MJA 06/27/2023</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>499</u>		


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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in





Attachment B  
Waste Disposal Documentation

# Madison Metropolitan Sewerage District

Firm: SCS Engineers  
Driver: SCS Driver  
Truck: XD80314  
Comments: 25211374.54 Northgate

Ticket No: 304272  
Date/Time: 6/26/2023 12:58:09PM  
Total Cost: \$0.08

<u>Type</u>	<u>Volume</u>
Grease Trap	0
Holding Tank	0
LUST	16
Portable Toilet	0
Septic Tank	0
SettlingCatchBasin	0