



TECHNICAL MEMO

To: Roxanne Chronert / WDNR
From: Ken Ebbott/Sand County Environmental, Inc.
CC: Roger Dulmes, Imogenes Cleaning Center / Ted Warpinski, Davis & Kuelthau
Via Email Only
RE: Imogenes Cleaning Center Drycleaning Environmental Repair Case
BRRTS # 02-60-552193
1502 Saemann Ave, Sheboygan, Wisconsin

Subject: Groundwater Chemistry Results July 31, 2020

Date: December 16, 2020

BACKGROUND AND OBJECTIVE

Imogene's Cleaning Center (Figure 1) is an active drycleaning and laundromat facility with an on-going WDNR environmental repair case. From 2008 to 2014, a site investigation and pilot test for the remedial action were completed. The pilot test was performed in June 2014, with successful injection of 1,000 gallons of sodium persulfate beneath the building at three injection boring locations. Investigation borings, injection wells, and groundwater monitoring wells are mapped on Figure 2.

Following completion of the pilot test in 2014 and submittal of the pilot test documentation report in 2015, activities were halted pending identification of a viable source of funding.

In July 2020, Sand County Environmental was hired and groundwater chemistry samples were obtained from the site monitoring wells. This Technical Memo presents the results and proposes additional actions.

COMPLETED SCOPE OF WORK AND METHODS

On July 31, 2020, groundwater samples were obtained from all five NR-141 compliant monitoring wells (MW-7, MW-8, PZ-9, PZ-14, and MW-15) and one small diameter indoor temporary well (TW-12). Water was not present in shallow temporary well TW-13, as it only extends to five feet below grade, and the depth to water is just over six feet below grade beneath the building.

Stable groundwater elevations were measured, and field measurements were obtained for dissolved oxygen, pH, oxidation-reduction potential, temperature, and conductivity. Measurements were obtained down hole for dissolved oxygen, conductivity, and temperature using a YSI 85 meter, while pH and oxidation/reduction potential were recorded on a recovered water sample using an Oakton meter with ion specific electrodes.

Groundwater samples were obtained using disposable bailers. Per standard WDNR groundwater sampling procedures, pre-sample purging was completed at all wells until four well volumes were

removed, with the exception of groundwater from piezometer PZ-14, which purged dry after removal of just over two well volumes, and well TW-12, which also purged dry. After purging, the wells were allowed to recover for one to three hours and the next water to enter the well was retained for laboratory analysis. Groundwater from well TW-12 did not recover, and the purged water was used for the laboratory analytical sample.

In addition to evaluation of the groundwater chemistry, the headspace gas from each well was evaluated using a field photoionization detector (PID). The PID was calibrated to a 100 ppm isobutylene gas standard prior to use, and readings were measured at each well before and after groundwater sampling to evaluate variations. Measurement of gas percent oxygen, carbon dioxide, hydrogen sulfide, and the percent of the lower explosive limit (LEL) for methane were also monitored, as these parameters have historically been required as part of the typical injection monitoring. Measurements were obtained in-well by insertion of the meter probe tip into the well headspace.

The subslab vapor mitigation system operating in the basement of the Sheboygan Paper Box Company, immediately adjacent of Imogenes Cleaning Center to the north, was also checked to verify function.

RESULTS

Groundwater Depth and Flow

The depth to groundwater is approximately six to seven feet below grade in the shallow water table wells near and beneath the Imogenes Cleaning Center building, and the water table surface slopes to the southeast. Water elevations are mapped on Figure 3, and historic measurements are summarized on Table 1. The water table groundwater elevations have ranged from approximately ten feet to four feet below grade historically.

Vertical gradients, as noted by measurements obtained from the two pairs of nested water table wells and deeper piezometers (MW-8 / PZ-9, and MW-15 / PZ-14), indicate downward groundwater flow. The water table wells are screened across the shallow soils at depths of less than 18 feet, while the piezometers are screened slightly deeper, in soil from 23 to 28 feet below grade at PZ-9, and 21 to 26 feet below grade at PZ-14.

The downward gradients, combined with the tighter soil noted at PZ-14 during pre-sample purging, indicates shallow groundwater is likely perched on less permeable deeper glacial deposits.

Groundwater Chemistry

Groundwater chemistry results indicate the groundwater beneath the building still contains elevated levels of tetrachloroethene (PCE) (Table 2 and Figure 4).

Dissolved PCE results in groundwater obtained from locations beneath and adjacent to the drycleaning machine (TW-12 and MW-8) are 27,800 and 15,800 micrograms per liter (ug/l), respectively.

Concentrations at MW-8 have declined significantly since the pilot test injection in June 2014, declining by an order of magnitude from the site investigation findings, but levels are still far above the WDNR NR 140 Enforcement Standard of 5.0 ug/l for PCE. Groundwater beneath the building at TW-12 has only

been sampled twice, both times following the pilot test injection, and the results were relatively similar in both samples. TW-12 is only 7.5 feet deep and has approximately one foot of water in it.

Chemistry results from downgradient wells MW-15 and PZ-14 indicate no detections, and results from well MW-7 are stable, indicating the extent of contamination is defined.

Results from deeper piezometer PZ-9, adjacent to water table well MW-8, displayed an increase in the concentration of PCE from 2014 to 2020 from 1.1 ug/l after the pilot test injection to 176 ug/l, but the result from the July 2020 sample is similar to the pre-injection concentrations that were present.

Relevant field-measured geochemical results indicate the groundwater is slightly oxygenated (values of approximately 2 to 2.6 parts per million [ppm]) and oxidation reduction values are positive (80 to 185 millivolts [mV]), indicating conditions are favorable for use of in-situ chemical oxidation for remediation (Table 3).

Well Head Gas Measurements

Field measurement of well head gasses using a photoionization detector (PID) and four-gas meter were obtained to evaluate whether monitoring the subsurface during the planned future injection would provide useful information. PID readings indicate elevated volatile organic compound concentrations are present under the building, particularly west of the drycleaning machine at TW-13 and at another floor penetration, with sub-building values ranging from approximately 500 to 1,000 ppm.

Concentrations were less than 3.0 ppm at TW-12, east of the drycleaning machine. Subsurface well headspace values were also low (less than 1.0 ppm) at all outdoor monitoring wells, with the exception of the post-groundwater sampling measurements at well MW-8, where PID values of 240 ppm were noted.

The only location where diminished oxygen values were observed was at TW-13, beneath the building floor, where the elevated PID responses were also noted. Monitoring using the PID and four-gas meter at select locations may prove helpful during injection.

Vapor System Function

A vapor mitigation system was required by the WDNR to be installed in the adjacent Sheboygan Paper Box Company basement. The vapor system consists of one powered extraction fan and four sub-floor extraction points, with a 3-inch PVC pipe header connecting the floor penetrations to the exhaust fan (Figure 2). The system was installed in 2011, and the fan was replaced in approximately 2014 after it was discovered to no longer be in operation.

The fan was observed to be working on July 31, 2020, with an extraction vacuum of two inches of water column.

DERF PROGRAM

The site is enrolled in the State of Wisconsin Dry Cleaner Environmental Repair Fund (DERF) program, and has received reimbursement of incurred costs for most completed activities, subject to the program deductible. At the present time, the WDNR has indicated that DERF funds are extremely limited, and projections indicate no further DERF reimbursement will be likely for this project.

CONCLUSION

Remedial actions are being evaluated in light of DERF funding issues.

I trust this information meets your needs, and I look forward to any questions or comments you may have.

Sincerely,



Kendrick A. Ebbott, P.G.

ATTACHMENTS

Groundwater Chemistry Laboratory Analytical Results: July 31, 2020 Samples

Figure 1: Site Location

Figure 2: Site Layout and Sample Locations

Figure 3: Groundwater Elevations

Figure 4: Groundwater Chemistry Data

Table 1: Monitoring Well Data and Groundwater Elevation

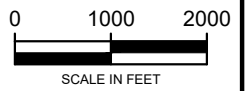
Table 2: Groundwater Chemistry - VOCs

Table 3: Groundwater Chemistry - Other



REFERENCE:
USGS 7.5 MIN. SHEBOYGAN NORTH, WISCONSIN
TOPOGRAPHIC QUADRANGLE DATED 2018.

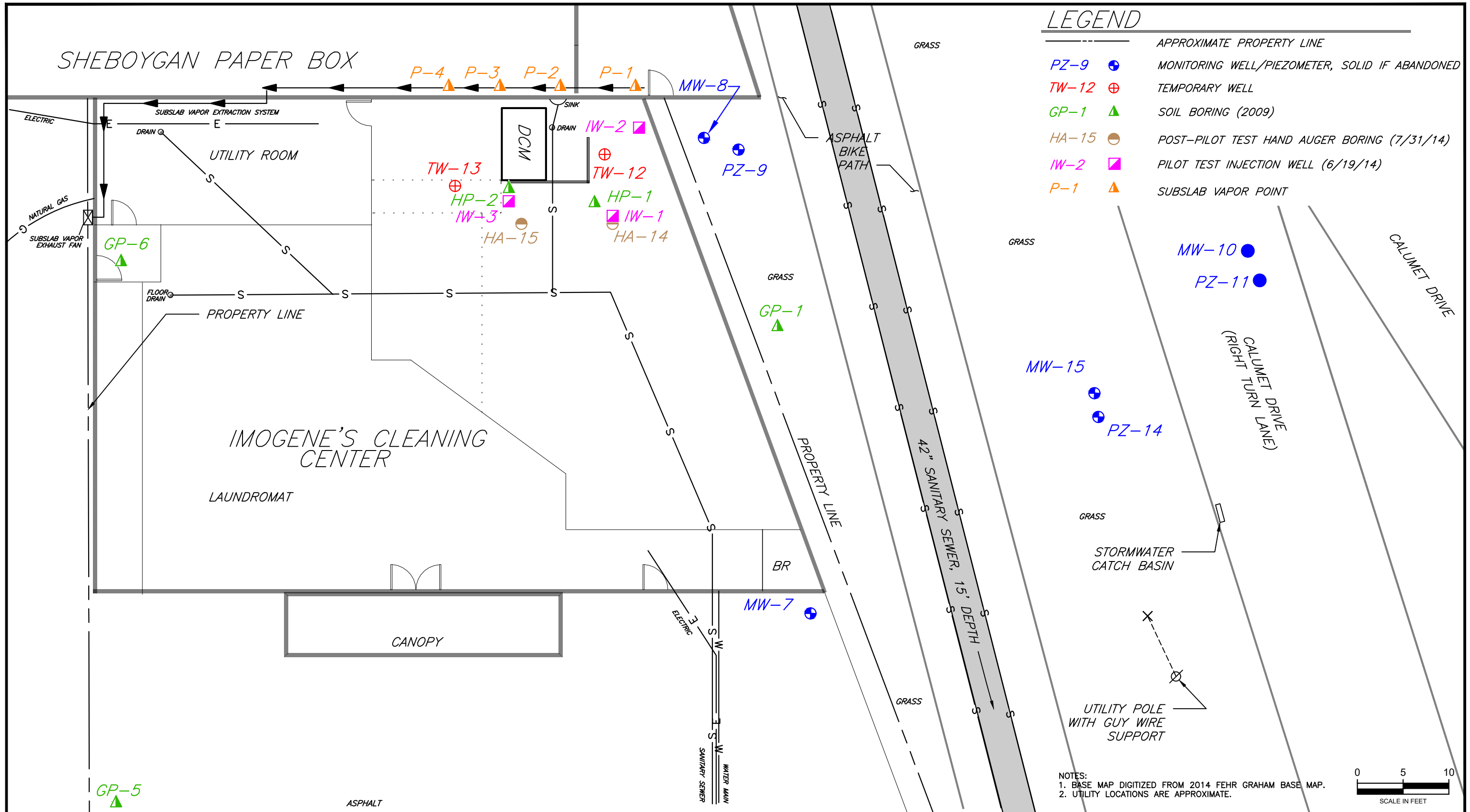
WISCONSIN
SHEBOYGAN COUNTY



SITE LOCATION MAP
IMOGENE'S CLEANING CENTER
1502 SAUMANN AVENUE
SHEBOYGAN, WISCONSIN

DATE: OCTOBER 2020	DRAWN BY: NG
SCALE: 1"=2000'	APPROVED: KE

FIGURE 1



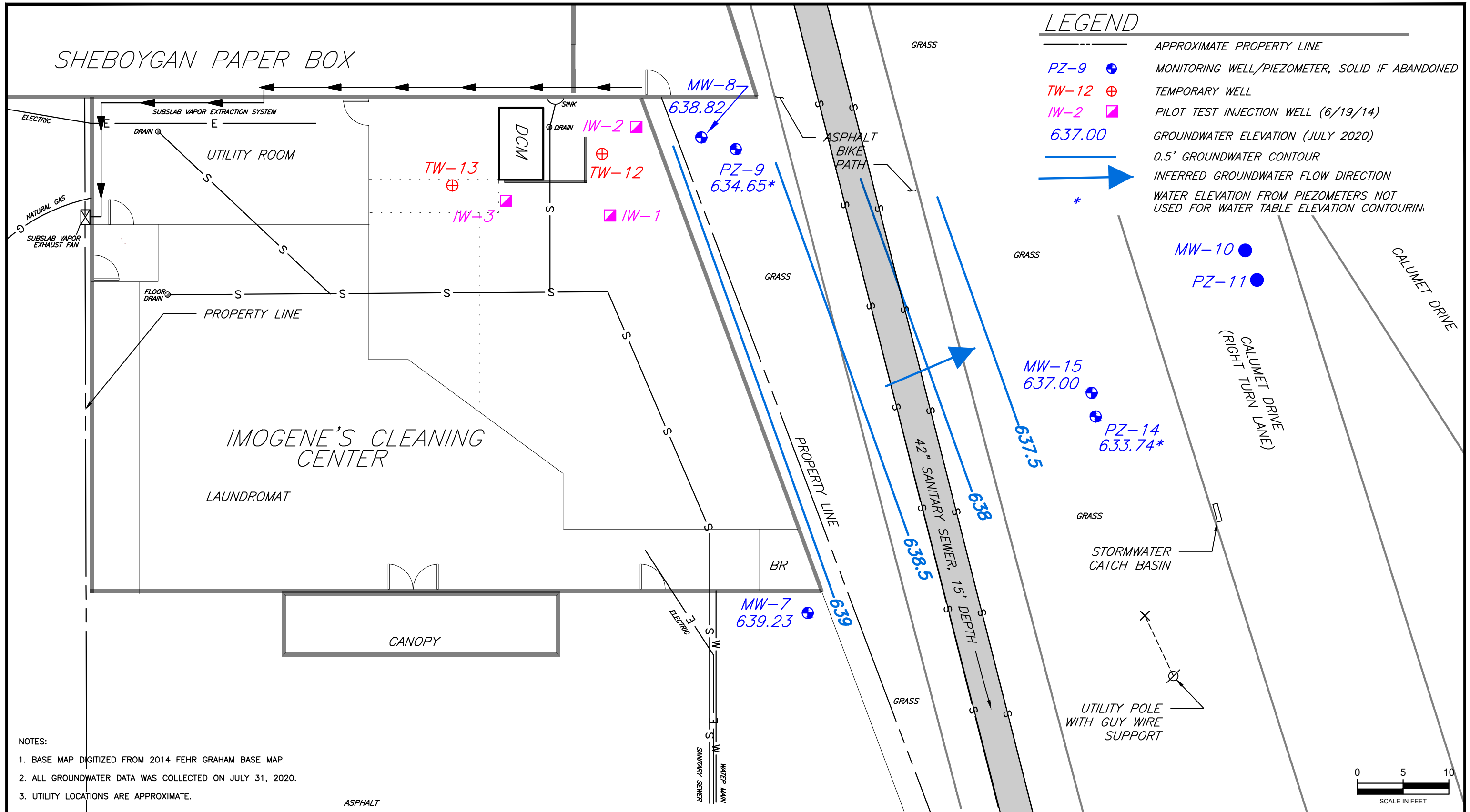
SITE LAYOUT AND SAMPLE LOCATIONS

IMOGENE'S CLEANING CENTER
1502 SAEMANN AVENUE
SHEBOYGAN, WISCONIN

DATE:	OCTOBER 2020
SCALE:	1"=10'
DRAWN BY:	NG
APPROVED :	KE

FIGURE 2





- NOTES:
1. BASE MAP DIGITIZED FROM 2014 FEHR GRAHAM BASE MAP.
 2. ALL GROUNDWATER DATA WAS COLLECTED ON JULY 31, 2020.
 3. UTILITY LOCATIONS ARE APPROXIMATE.

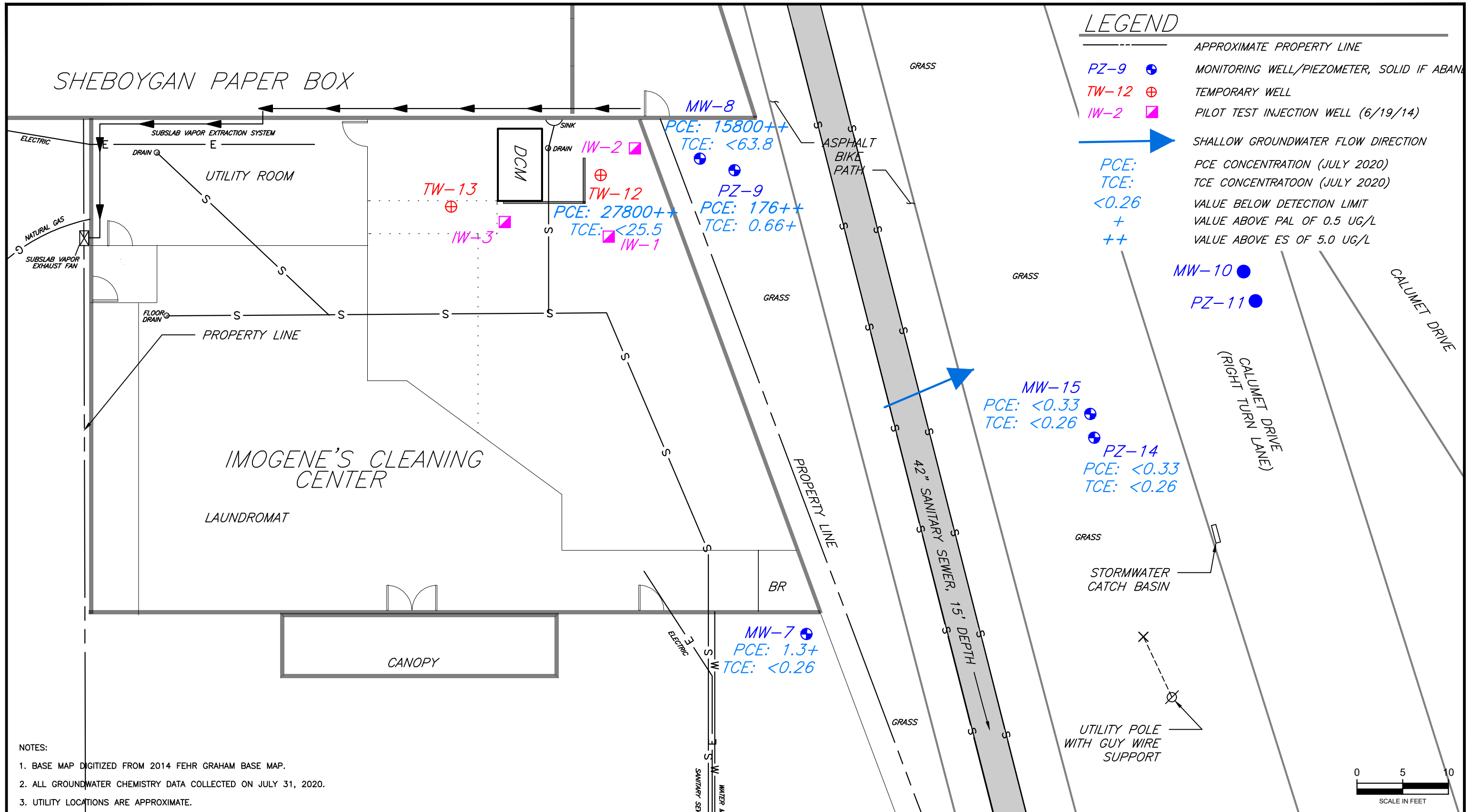


GROUNDWATER ELEVATIONS

IMOGENE'S CLEANING CENTER
 1502 SAEMANN AVENUE
 SHEBOYGAN, WISCONSIN

DATE:	OCTOBER 2020
SCALE:	1"=10'
DRAWN BY:	NB
APPROVED:	KE

FIGURE 3



GROUNDWATER CHEMISTRY DATA

IMOGENE'S CLEANING CENTER
 1502 SAEMANN AVENUE
 SHEBOYGAN, WISCONSIN

DATE: SEPTEMBER 2020
 SCALE: 1"=10'
 DRAWN BY: ASR
 APPROVED: KE

FIGURE 4



Table 1
Monitoring Well Data and Groundwater Elevation
Imogene's Cleaning Center
1502 Saemann Avenue
Sheboygan, Wisconsin
BRRTS# 02-60-552193

Sample Location	Well Elevations (ft MSL)	Sample Date ¹	Depth to Water (below casing) (feet)	Depth to Water (below grade) (feet)	Water Table Elevation (ft MSL)	
MW-7	Top of Casing Elevation	09/16/09	9.75	10.07	635.83	
	Ground Surface Elevation	01/08/10	8.69	9.01	636.89	
	Total Well Depth (feet brl)	01/25/11	10.47	10.79	635.11	
	Stickup (feet bgs)	-0.32	06/18/14	4.39	4.71	641.19
			06/20/14	4.58	4.90	641.00
			07/11/14	6.90	7.22	638.68
			07/30/14	7.83	8.15	637.75
			10/07/14	--	--	--
		07/31/20	6.35	6.67	639.23	
MW-8	Top of Casing Elevation	09/16/09	10.01	10.37	635.57	
	Ground Surface Elevation	01/08/10	8.95	9.31	636.63	
	Total Well Depth (feet brl)	01/25/11	10.69	11.05	634.89	
	Stickup (feet bgs)	-0.36	06/18/14	3.81	4.17	641.77
			06/20/14	4.42	4.78	641.16
			07/11/14	6.69	7.05	638.89
			07/30/14	6.93	7.29	638.65
			10/07/14	--	--	--
		07/31/20	6.76	7.12	638.82	
PZ-9	Top of Casing Elevation	09/16/09	12.94	13.28	632.44	
	Ground Surface Elevation	01/08/10	11.73	12.07	633.65	
	Total Well Depth (feet brl)	01/25/11	12.92	13.26	632.46	
	Stickup (feet bgs)	-0.34	06/18/14	11.24	11.58	634.14
			06/20/14	10.67	11.01	634.71
			07/11/14	11.20	11.54	634.18
			07/30/14	11.94	12.28	633.44
			10/07/14	--	--	--
		07/31/20	10.73	11.07	634.65	
MW-10	Top of Casing Elevation	09/16/09	11.14	11.55	633.03	
	Ground Surface Elevation	01/08/10	10.36	10.77	633.81	
	Total Well Depth (feet brl)	01/25/11	11.50	11.91	632.67	
	Stickup (feet bgs)	-0.41	06/18/14	Removed during road construction		
			06/20/14	Replaced with MW-15		
			07/11/14	--	--	--
			07/30/14	--	--	--
			10/07/14	--	--	--
		07/31/20	--	--	--	

Table 1
Monitoring Well Data and Groundwater Elevation
Imogene's Cleaning Center
1502 Saemann Avenue
Sheboygan, Wisconsin
BRRTS# 02-60-552193

Sample Location	Well Elevations (ft MSL)	Sample Date ¹	Depth to Water (below casing) (feet)	Depth to Water (below grade) (feet)	Water Table Elevation (ft MSL)
MW-15	Top of Casing Elevation	644.52		Installed 8/29/14	
	Ground Surface Elevation	644.86	10/07/14	10.11	634.41
	Total Well Depth (feet brl)	15.70	07/31/20	7.52	637.00
	Stickup (feet bgs)	-0.34			
PZ-11	Top of Casing Elevation	NA	09/16/09	dry	--
	Ground Surface Elevation	NA	01/08/10	12.55	--
	Total Well Depth (feet brl)	25.55	01/25/11	11.23	--
	Stickup (feet bgs)	NA		Removed during road construction Replaced with PZ-14	
PZ-14	Top of Casing Elevation	644.52		Installed 8/29/14	
	Ground Surface Elevation	644.82	10/07/14	10.98	633.54
	Total Well Depth (feet brl)	25.55	07/31/20	10.78	633.74
	Stickup (feet bgs)	-0.30			
TW-12	Top of Casing Elevation	NA		Installed 6/19/14	
	Ground Surface Elevation	NA	06/20/14	6.04	--
	Total Well Depth (feet brl)	7.50	07/11/14	4.64	--
	Stickup (feet bgs)	-0.08	07/30/14	6.08	--
			10/07/14	--	--
			07/31/20	6.11	--
TW-13	Top of Casing Elevation	NA		Installed 6/19/14	
	Ground Surface Elevation	NA	06/20/14	--	--
	Total Well Depth (feet brl)	5.1	07/11/14	--	--
	Stickup (feet bgs)	-0.22	07/30/14	--	--
			10/07/14	--	--
			07/31/20	4.85	--

Notes

- Not analyzed/Not available
- ft MSL Feet above mean sea level
- bgs Below ground surface
- brl Below well riser lip

\\scc-server1\common\1-Projects\Imogenes\Data\[FG Data Table - Imogenes - 14.1125.xlsx]Table 1 Water Lvl Elev

Table 2
Groundwater Chemistry - VOC's
Imogenes's Cleaning Center
1502 Seamann Avenue
Sheboygan, Wisconsin
BRRTS# 02-60-552193

Sample Location	Location Description	Sample Date	Note	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L
			NR 140 Preventive Action Limit	0.5	0.5	7	20	0.02
			NR 140 Enforcement Standard	5	5	70	100	0.2
GP-1	Water Table, East, Downgradient	8/7/08		22,000	11	<0.50	<0.50	<0.20
GP-2	Water Table, Northeast, Downgradient	6/30/09		<0.45	<0.48	<0.83	<0.89	<0.18
GP-3	Water Table, Far Southeast, Downgradient	6/30/09		<0.45	<0.48	<0.83	<0.89	<0.18
GP-5	Water Table, Southwest, Upgradient	6/30/09		<0.45	<0.48	<0.83	<0.89	<0.18
GP-6	Water Table, West, Upgradient	6/30/09		16.3	<0.48	<0.83	<0.89	<0.18
TW-12	Water Table, Screened 2.5-7.5', Source Area	7/30/14		19,000	<82.7	<64.0	<64.1	<43.9
		7/31/20		27,800	<25.5	<27.1	<46.4	<17.5
TW-13	Water Table, Source Area	7/30/14	Well Dry	--	--	--	--	--
MW-7	Water Table, Screened 8-18', Southeast, Sidegradient	9/16/09		0.70	<0.48	<0.83	<0.89	<0.18
		1/8/10		1.4	<0.48	<0.83	<0.89	<0.18
		1/25/11		0.46	<0.48	<0.83	<0.89	<0.18
		6/18/14	Pre-Pilot	1.5	<0.33	<0.26	<0.26	<0.18
		7/30/14	Post-Pilot	1.1	<0.33	<0.26	<0.26	<0.18
		7/31/20		1.3	<0.26	<0.27	<0.46	<0.17
MW-8	Water Table, Screened 8-18', Near East, Downgradient	9/16/09		149,000	<600	<1,040	<1,110	<225
		9/16/09	Duplicate	151,000	<600	<1,040	<1,110	<225
		1/8/10		130,000	<480	<830	<890	<180
		1/25/11		143,000	<600	<1,040	<1,110	<225
		6/18/14	Pre-Pilot	25,000	<66.1	<51.2	<51.3	<35.1
		7/30/14	Post-Pilot	45,400	<66.1	<51.2	<51.3	<35.1
		7/31/20		15,800	<63.8	<67.8	<116	<43.7
PZ-9	Screened 23-28', Near East, Downgradient	9/16/09		47.8	<0.48	<0.83	<0.89	<0.18
		1/8/10		28.7	<0.48	<0.83	<0.89	<0.18
		1/8/10	Duplicate	28.3	<0.48	<0.83	<0.89	<0.18
		1/25/11		141	<0.48	<0.83	<0.89	<0.18
		6/18/14	Pre-Pilot	133	<0.33	<0.26	<0.26	<0.18
		7/30/14	Post-Pilot	1.1	<0.33	<0.26	<0.26	<0.18
		7/31/20		176	0.66 J	<0.27	<0.46	<0.17
PZ-14	Screened 21-26', East of Bike Path, Downgradient	7/31/20		<0.33	<0.26	<0.27	<0.46	<0.17
MW-15	Screened 6 to 16', East of Bike Path, Downgradient	7/31/20		<0.33	<0.26	<0.27	<0.46	<0.17
MW-10	Water Table, Far East	9/16/09		0.62	<0.48	<0.83	<0.89	<0.18
		1/8/10		<0.45	<0.48	<0.83	<0.89	<0.18
		1/25/11		<0.45	<0.48	<0.83	<0.89	<0.18
PZ-11	Screened 21-26', Far East	1/25/11		<0.45	<0.48	<0.83	<0.89	<0.18
Trip Blank		9/16/09		<0.61	<0.62	<0.75	<0.20	<0.19
		1/8/10		<0.61	<0.62	<0.75	<0.20	<0.19
		1/25/11		<0.61	<0.62	<0.75	<0.20	<0.19
		6/18/14		<0.50	<0.48	<0.44	<0.50	<0.23
		7/30/14		<0.50	<0.48	<0.44	<0.50	<0.23

Notes

- µg/L All results are in µg/L, micrograms per liter
- <0.26 Concentration is less than the indicated reporting limit.
- Not analyzed or not applicable
- ft MSL Feet above mean sea level
- J Analyte was detected but is below the reporting limit. The concentration is estimated.
- Bold** Concentration exceeds NR 140 Enforcement Standard (ES)
- Italic** Concentration exceeds NR 140 Preventative Action Limit (PAL)

O:\1-Projects\Imogenes\Data\[FG Data Table - Imogenes - 14.1125.xlsx] Table 2 GW VOC

Table 3
Groundwater Chemistry - Other
Imogene's Cleaning Center
1502 Saemann Avenue
Sheboygan, Wisconsin
BRRTS# 02-60-552193

Sample Location	Sample Date	Note	Temperature	Specific Conductivity	Dissolved Oxygen (field)	pH	ORP	Alkalinity	BOD	COD	TOC	Nitrate +		Sulfate	Dissolved Iron	Dissolved Manganese	Methane	Ethane	Ethene
												Nitrite	Ammonia						
			Unit	°C	mS/cm	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NR 140 Preventive Action Limit			--	--	--	--	--	--	--	--	--	2	--	125*	150*	60	--	--	--
NR 140 Enforcement Standard			--	--	--	--	--	--	--	--	--	10	--	250*	300*	300	--	--	--
MW-7	9/16/2009		15.11	2,323	3.75	6.67	504.4**	--	--	--	--	--	--	--	--	--	--	--	--
	1/8/2010		12.91	2,074	2.88	6.52	293.1	--	--	--	--	--	--	--	--	--	--	--	--
	1/25/2011		12.78	2,260	2.02	5.94	171.4	703	<2.0	122	1.6	5.3	<0.25	77.6	46.7	8.1	<0.93	<0.47	<0.32
	6/18/2014	Pre-Pilot	12.10	1,369	7.37	6.69	205.9	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2014	Post-Pilot	13.45	1,325	7.03	6.93	373.2	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/2014		14.73	1,720	7.26	6.91	177.3	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/2020		19.0	2,100	2.64	6.08	79.4	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	9/16/2009		14.31	839	3.65	6.91	443.5**	--	--	--	--	--	--	--	--	--	--	--	--
	1/8/2010		14.22	806	0.87	6.97	335.7	--	--	--	--	--	--	--	--	--	--	--	--
	1/25/2011		14.40	906	1.20	6.73	150.1	358	<2.0	30.0	1.8	4.4	<0.25	26.6	131	23.3	<0.93	<0.47	<0.32
	6/18/2014	Pre-Pilot	13.51	318	8.45	6.76	283.5	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2014	Post-Pilot	14.47	230	8.60	7.60	355.4	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/2014		14.87	450	5.73	6.81	323.0	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/2020		17.4	303	2.31	7.21	185.5	--	--	--	--	--	--	--	--	--	--	--	--
PZ-9	9/16/2009		13.04	1,128	3.20	6.89	446.6**	--	--	--	--	--	--	--	--	--	--	--	--
	1/8/2010		14.10	1,005	0.29	7.50	328.3	--	--	--	--	--	--	--	--	--	--	--	--
	1/25/2011		14.41	1,278	3.49	6.73	152.1	388	6.6	27.7	2.3	<0.12	<0.25	98.8	47.5	68.0	45.4	<0.47	<0.32
	6/18/2014	Pre-Pilot	12.65	750	0.48	6.48	-75.2	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2014	Post-Pilot	12.61	831	1.26	6.55	331.8	--	--	--	--	--	--	--	--	--	--	--	--
	7/30/2014		12.96	774	0.76	6.93	-11.2	--	--	--	--	--	--	--	--	--	--	--	--
	7/31/2020		15.2	133	2.35	6.15	97.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	9/16/2009		13.38	2,937	6.09	6.37	501.8**	--	--	--	--	--	--	--	--	--	--	--	--
	1/8/2010		12.90	2,920	1.82	6.55	340.1	--	--	--	--	--	--	--	--	--	--	--	--
	1/25/2011		12.52	3,600	1.10	6.16	166.6	--	--	--	--	<0.12	<0.25	93.3	25.2	165	<0.93	<0.47	<0.32
PZ-11	1/25/2011		13.39	824	4.97	6.90	159.8	--	--	--	--	0.5	<0.25	82.8	30.4	432	<0.93	<0.47	<0.32
TW-12	6/19/2014	Post-Pilot	18.33	5803	16.66	10.04	129.1	--	--	--	--	--	--	--	--	--	--	--	--
PZ-14	7/31/2020		12.80	862	2.01	6.78	119.8	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	7/31/2020		15.50	1720	2.32	6.58	90.0	--	--	--	--	--	--	--	--	--	--	--	--

Notes

- Italic** Result exceeds NR 140.10 or 140.12 Preventative Action Limit (PAL)
- Bold** Result exceeds NR 140.10 or 140.12 Enforcement Standard (ES)
- * Public Welfare Standard from Table 2, NR 140.12
- ** Values beyond standard range of concentration, meter operation suspect

- °C degrees celcius
- mS/cm micro siemens per centimeter
- mg/l milligrams per liter
- ORP oxidation-reduction potential

- mV Millivolt
- µg/L micrograms per liter
- BOD biological oxygen demand
- COD chemical oxygen demand
- TOC total organic carbon

O:\1-Projects\Imogenes\Data\MASTER Imogenes Data.xlsx\Table 3 GW Other

August 05, 2020

Ken Ebbott
SAND CREEK CONSULTANTS
W58577 Pheasant Lane
Plymouth, WI 53073

RE: Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Dear Ken Ebbott:

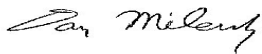
Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: Hollie DePuydt, SAND CREEK CONSULTANTS, INC.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40212167001	MW-7	Water	07/31/20 15:40	08/03/20 13:00
40212167002	MW-8	Water	07/31/20 16:00	08/03/20 13:00
40212167003	PZ-9	Water	07/31/20 15:45	08/03/20 13:00
40212167004	TW-12	Water	07/31/20 16:15	08/03/20 13:00
40212167005	PZ-14	Water	07/31/20 15:55	08/03/20 13:00
40212167006	MW-15	Water	07/31/20 15:50	08/03/20 13:00

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SAMPLE ANALYTE COUNT

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40212167001	MW-7	EPA 8260	LAP	63
40212167002	MW-8	EPA 8260	LAP	63
40212167003	PZ-9	EPA 8260	LAP	63
40212167004	TW-12	EPA 8260	LAP	63
40212167005	PZ-14	EPA 8260	LAP	63
40212167006	MW-15	EPA 8260	LAP	63

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40212167001	MW-7					
EPA 8260	Bromomethane	11.2	ug/L	5.0	08/04/20 16:11	
EPA 8260	Chloromethane	35.2	ug/L	7.3	08/04/20 16:11	
EPA 8260	Tetrachloroethene	1.3	ug/L	1.1	08/04/20 16:11	
40212167002	MW-8					
EPA 8260	Tetrachloroethene	15800	ug/L	272	08/05/20 08:22	
40212167003	PZ-9					
EPA 8260	Chloromethane	7.0J	ug/L	7.3	08/04/20 16:33	
EPA 8260	Tetrachloroethene	176	ug/L	1.1	08/04/20 16:33	
EPA 8260	Trichloroethene	0.66J	ug/L	1.0	08/04/20 16:33	
40212167004	TW-12					
EPA 8260	Tetrachloroethene	27800	ug/L	109	08/04/20 10:14	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Sample: MW-7 Lab ID: 40212167001 Collected: 07/31/20 15:40 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 16:11	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/04/20 16:11	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:11	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/04/20 16:11	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 16:11	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/04/20 16:11	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/04/20 16:11	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		08/04/20 16:11	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/04/20 16:11	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/04/20 16:11	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/04/20 16:11	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/04/20 16:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/04/20 16:11	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:11	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:11	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:11	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/04/20 16:11	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/04/20 16:11	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/04/20 16:11	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/04/20 16:11	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/04/20 16:11	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/04/20 16:11	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/04/20 16:11	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/04/20 16:11	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/04/20 16:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/04/20 16:11	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/04/20 16:11	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/04/20 16:11	75-25-2	
Bromomethane	11.2	ug/L	5.0	0.97	1		08/04/20 16:11	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		08/04/20 16:11	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:11	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/04/20 16:11	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/04/20 16:11	67-66-3	
Chloromethane	35.2	ug/L	7.3	2.2	1		08/04/20 16:11	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/04/20 16:11	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/04/20 16:11	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/04/20 16:11	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/04/20 16:11	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		08/04/20 16:11	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		08/04/20 16:11	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		08/04/20 16:11	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/04/20 16:11	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/04/20 16:11	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/04/20 16:11	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		08/04/20 16:11	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Sample: MW-7 **Lab ID: 40212167001** Collected: 07/31/20 15:40 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	1.3	ug/L	1.1	0.33	1		08/04/20 16:11	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		08/04/20 16:11	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/04/20 16:11	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/04/20 16:11	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/04/20 16:11	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/04/20 16:11	1330-20-7	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/04/20 16:11	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/04/20 16:11	10061-01-5	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:11	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/04/20 16:11	103-65-1	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/04/20 16:11	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/04/20 16:11	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/04/20 16:11	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		08/04/20 16:11	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/04/20 16:11	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/04/20 16:11	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		08/04/20 16:11	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		08/04/20 16:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Sample: MW-8 **Lab ID: 40212167002** Collected: 07/31/20 16:00 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		08/05/20 08:22	630-20-6	
1,1,1-Trichloroethane	<61.2	ug/L	250	61.2	250		08/05/20 08:22	71-55-6	
1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		08/05/20 08:22	79-34-5	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		08/05/20 08:22	79-00-5	
1,1-Dichloroethane	<68.1	ug/L	250	68.1	250		08/05/20 08:22	75-34-3	
1,1-Dichloroethene	<61.2	ug/L	250	61.2	250		08/05/20 08:22	75-35-4	
1,1-Dichloropropene	<135	ug/L	450	135	250		08/05/20 08:22	563-58-6	
1,2,3-Trichlorobenzene	<553	ug/L	1840	553	250		08/05/20 08:22	87-61-6	
1,2,3-Trichloropropane	<148	ug/L	1250	148	250		08/05/20 08:22	96-18-4	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		08/05/20 08:22	120-82-1	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		08/05/20 08:22	95-63-6	
1,2-Dibromo-3-chloropropane	<441	ug/L	1470	441	250		08/05/20 08:22	96-12-8	
1,2-Dibromoethane (EDB)	<207	ug/L	691	207	250		08/05/20 08:22	106-93-4	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		08/05/20 08:22	95-50-1	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		08/05/20 08:22	107-06-2	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		08/05/20 08:22	78-87-5	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		08/05/20 08:22	108-67-8	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		08/05/20 08:22	541-73-1	
1,3-Dichloropropane	<206	ug/L	688	206	250		08/05/20 08:22	142-28-9	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		08/05/20 08:22	106-46-7	
2,2-Dichloropropane	<566	ug/L	1890	566	250		08/05/20 08:22	594-20-7	
2-Chlorotoluene	<232	ug/L	1250	232	250		08/05/20 08:22	95-49-8	
4-Chlorotoluene	<189	ug/L	630	189	250		08/05/20 08:22	106-43-4	
Benzene	<61.6	ug/L	250	61.6	250		08/05/20 08:22	71-43-2	
Bromobenzene	<60.3	ug/L	250	60.3	250		08/05/20 08:22	108-86-1	
Bromochloromethane	<90.5	ug/L	1250	90.5	250		08/05/20 08:22	74-97-5	
Bromodichloromethane	<90.9	ug/L	303	90.9	250		08/05/20 08:22	75-27-4	
Bromoform	<993	ug/L	3310	993	250		08/05/20 08:22	75-25-2	
Bromomethane	<243	ug/L	1250	243	250		08/05/20 08:22	74-83-9	1q
Carbon tetrachloride	<269	ug/L	897	269	250		08/05/20 08:22	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		08/05/20 08:22	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		08/05/20 08:22	75-00-3	
Chloroform	<318	ug/L	1250	318	250		08/05/20 08:22	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		08/05/20 08:22	74-87-3	
Dibromochloromethane	<650	ug/L	2170	650	250		08/05/20 08:22	124-48-1	
Dibromomethane	<234	ug/L	781	234	250		08/05/20 08:22	74-95-3	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		08/05/20 08:22	75-71-8	
Diisopropyl ether	<472	ug/L	1570	472	250		08/05/20 08:22	108-20-3	
Ethylbenzene	<79.6	ug/L	266	79.6	250		08/05/20 08:22	100-41-4	
Hexachloro-1,3-butadiene	<366	ug/L	1220	366	250		08/05/20 08:22	87-68-3	
Isopropylbenzene (Cumene)	<422	ug/L	1400	422	250		08/05/20 08:22	98-82-8	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		08/05/20 08:22	1634-04-4	
Methylene Chloride	<145	ug/L	1250	145	250		08/05/20 08:22	75-09-2	
Naphthalene	<294	ug/L	1250	294	250		08/05/20 08:22	91-20-3	
Styrene	<752	ug/L	2510	752	250		08/05/20 08:22	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Sample: MW-8 **Lab ID: 40212167002** Collected: 07/31/20 16:00 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	15800	ug/L	272	81.6	250		08/05/20 08:22	127-18-4	
Toluene	<67.4	ug/L	224	67.4	250		08/05/20 08:22	108-88-3	
Trichloroethene	<63.8	ug/L	250	63.8	250		08/05/20 08:22	79-01-6	
Trichlorofluoromethane	<53.7	ug/L	250	53.7	250		08/05/20 08:22	75-69-4	
Vinyl chloride	<43.7	ug/L	250	43.7	250		08/05/20 08:22	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		08/05/20 08:22	1330-20-7	
cis-1,2-Dichloroethene	<67.8	ug/L	250	67.8	250		08/05/20 08:22	156-59-2	
cis-1,3-Dichloropropene	<907	ug/L	3020	907	250		08/05/20 08:22	10061-01-5	
n-Butylbenzene	<177	ug/L	590	177	250		08/05/20 08:22	104-51-8	
n-Propylbenzene	<203	ug/L	1250	203	250		08/05/20 08:22	103-65-1	
p-Isopropyltoluene	<200	ug/L	667	200	250		08/05/20 08:22	99-87-6	
sec-Butylbenzene	<212	ug/L	1250	212	250		08/05/20 08:22	135-98-8	
tert-Butylbenzene	<76.0	ug/L	253	76.0	250		08/05/20 08:22	98-06-6	
trans-1,2-Dichloroethene	<116	ug/L	387	116	250		08/05/20 08:22	156-60-5	
trans-1,3-Dichloropropene	<1090	ug/L	3640	1090	250		08/05/20 08:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		250		08/05/20 08:22	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		250		08/05/20 08:22	1868-53-7	
Toluene-d8 (S)	103	%	70-130		250		08/05/20 08:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER

Sample Project No.: 40212167

Sample: PZ-9 **Lab ID: 40212167003** Collected: 07/31/20 15:45 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 16:33	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/04/20 16:33	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:33	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/04/20 16:33	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 16:33	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/04/20 16:33	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/04/20 16:33	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		08/04/20 16:33	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/04/20 16:33	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/04/20 16:33	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/04/20 16:33	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/04/20 16:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/04/20 16:33	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:33	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:33	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:33	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/04/20 16:33	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/04/20 16:33	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/04/20 16:33	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/04/20 16:33	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/04/20 16:33	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/04/20 16:33	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/04/20 16:33	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/04/20 16:33	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/04/20 16:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/04/20 16:33	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/04/20 16:33	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/04/20 16:33	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/04/20 16:33	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		08/04/20 16:33	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:33	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/04/20 16:33	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/04/20 16:33	67-66-3	
Chloromethane	7.0J	ug/L	7.3	2.2	1		08/04/20 16:33	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/04/20 16:33	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/04/20 16:33	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/04/20 16:33	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/04/20 16:33	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		08/04/20 16:33	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		08/04/20 16:33	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		08/04/20 16:33	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/04/20 16:33	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/04/20 16:33	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/04/20 16:33	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		08/04/20 16:33	100-42-5	

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Sample: PZ-9 **Lab ID: 40212167003** Collected: 07/31/20 15:45 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	176	ug/L	1.1	0.33	1		08/04/20 16:33	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		08/04/20 16:33	108-88-3	
Trichloroethene	0.66J	ug/L	1.0	0.26	1		08/04/20 16:33	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/04/20 16:33	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/04/20 16:33	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/04/20 16:33	1330-20-7	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/04/20 16:33	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/04/20 16:33	10061-01-5	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:33	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/04/20 16:33	103-65-1	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/04/20 16:33	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/04/20 16:33	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/04/20 16:33	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		08/04/20 16:33	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/04/20 16:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		08/04/20 16:33	460-00-4	HS
Dibromofluoromethane (S)	98	%	70-130		1		08/04/20 16:33	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		08/04/20 16:33	2037-26-5	

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Sample: TW-12 **Lab ID: 40212167004** Collected: 07/31/20 16:15 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		08/04/20 10:14	630-20-6	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		08/04/20 10:14	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		08/04/20 10:14	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		08/04/20 10:14	79-00-5	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		08/04/20 10:14	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		08/04/20 10:14	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		08/04/20 10:14	563-58-6	
1,2,3-Trichlorobenzene	<221	ug/L	737	221	100		08/04/20 10:14	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		08/04/20 10:14	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		08/04/20 10:14	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		08/04/20 10:14	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		08/04/20 10:14	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		08/04/20 10:14	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		08/04/20 10:14	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		08/04/20 10:14	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		08/04/20 10:14	78-87-5	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		08/04/20 10:14	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		08/04/20 10:14	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		08/04/20 10:14	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		08/04/20 10:14	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		08/04/20 10:14	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		08/04/20 10:14	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		08/04/20 10:14	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		08/04/20 10:14	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		08/04/20 10:14	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		08/04/20 10:14	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		08/04/20 10:14	75-27-4	
Bromoform	<397	ug/L	1320	397	100		08/04/20 10:14	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		08/04/20 10:14	74-83-9	
Carbon tetrachloride	<108	ug/L	359	108	100		08/04/20 10:14	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		08/04/20 10:14	108-90-7	
Chloroethane	<134	ug/L	500	134	100		08/04/20 10:14	75-00-3	
Chloroform	<127	ug/L	500	127	100		08/04/20 10:14	67-66-3	
Chloromethane	<219	ug/L	730	219	100		08/04/20 10:14	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		08/04/20 10:14	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		08/04/20 10:14	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		08/04/20 10:14	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		08/04/20 10:14	108-20-3	
Ethylbenzene	<31.9	ug/L	106	31.9	100		08/04/20 10:14	100-41-4	
Hexachloro-1,3-butadiene	<146	ug/L	488	146	100		08/04/20 10:14	87-68-3	
Isopropylbenzene (Cumene)	<169	ug/L	562	169	100		08/04/20 10:14	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		08/04/20 10:14	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		08/04/20 10:14	75-09-2	
Naphthalene	<118	ug/L	500	118	100		08/04/20 10:14	91-20-3	
Styrene	<301	ug/L	1000	301	100		08/04/20 10:14	100-42-5	

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Sample: TW-12 **Lab ID:** 40212167004 Collected: 07/31/20 16:15 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	27800	ug/L	109	32.6	100		08/04/20 10:14	127-18-4	
Toluene	<26.9	ug/L	89.8	26.9	100		08/04/20 10:14	108-88-3	
Trichloroethene	<25.5	ug/L	100	25.5	100		08/04/20 10:14	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		08/04/20 10:14	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		08/04/20 10:14	75-01-4	
Xylene (Total)	<150	ug/L	300	150	100		08/04/20 10:14	1330-20-7	
cis-1,2-Dichloroethene	<27.1	ug/L	100	27.1	100		08/04/20 10:14	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		08/04/20 10:14	10061-01-5	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		08/04/20 10:14	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		08/04/20 10:14	103-65-1	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		08/04/20 10:14	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		08/04/20 10:14	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		08/04/20 10:14	98-06-6	
trans-1,2-Dichloroethene	<46.4	ug/L	155	46.4	100		08/04/20 10:14	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		08/04/20 10:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		100		08/04/20 10:14	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		100		08/04/20 10:14	1868-53-7	
Toluene-d8 (S)	103	%	70-130		100		08/04/20 10:14	2037-26-5	

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
 Pace Project No.: 40212167

Sample: PZ-14 **Lab ID: 40212167005** Collected: 07/31/20 15:55 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 16:56	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/04/20 16:56	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:56	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/04/20 16:56	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 16:56	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/04/20 16:56	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/04/20 16:56	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		08/04/20 16:56	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/04/20 16:56	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/04/20 16:56	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/04/20 16:56	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/04/20 16:56	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/04/20 16:56	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:56	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:56	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/04/20 16:56	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/04/20 16:56	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/04/20 16:56	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/04/20 16:56	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/04/20 16:56	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/04/20 16:56	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/04/20 16:56	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/04/20 16:56	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/04/20 16:56	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/04/20 16:56	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/04/20 16:56	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/04/20 16:56	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/04/20 16:56	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/04/20 16:56	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		08/04/20 16:56	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:56	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/04/20 16:56	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/04/20 16:56	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/04/20 16:56	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/04/20 16:56	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/04/20 16:56	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/04/20 16:56	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/04/20 16:56	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		08/04/20 16:56	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		08/04/20 16:56	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		08/04/20 16:56	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/04/20 16:56	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/04/20 16:56	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/04/20 16:56	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		08/04/20 16:56	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Sample: PZ-14 **Lab ID: 40212167005** Collected: 07/31/20 15:55 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/05/20 07:37	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		08/04/20 16:56	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/04/20 16:56	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/04/20 16:56	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/04/20 16:56	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/04/20 16:56	1330-20-7	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/04/20 16:56	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/04/20 16:56	10061-01-5	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 16:56	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/04/20 16:56	103-65-1	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/04/20 16:56	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/04/20 16:56	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/04/20 16:56	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		08/04/20 16:56	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/04/20 16:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		08/04/20 16:56	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		08/04/20 16:56	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		08/04/20 16:56	2037-26-5	

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Sample: MW-15 **Lab ID: 40212167006** Collected: 07/31/20 15:50 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 17:18	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/04/20 17:18	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 17:18	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/04/20 17:18	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/04/20 17:18	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/04/20 17:18	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/04/20 17:18	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		08/04/20 17:18	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/04/20 17:18	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/04/20 17:18	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/04/20 17:18	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/04/20 17:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/04/20 17:18	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 17:18	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/04/20 17:18	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/04/20 17:18	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/04/20 17:18	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/04/20 17:18	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/04/20 17:18	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/04/20 17:18	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/04/20 17:18	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/04/20 17:18	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/04/20 17:18	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/04/20 17:18	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/04/20 17:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/04/20 17:18	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/04/20 17:18	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/04/20 17:18	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/04/20 17:18	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		08/04/20 17:18	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 17:18	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/04/20 17:18	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/04/20 17:18	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/04/20 17:18	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/04/20 17:18	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/04/20 17:18	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/04/20 17:18	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/04/20 17:18	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		08/04/20 17:18	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		08/04/20 17:18	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		08/04/20 17:18	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/04/20 17:18	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/04/20 17:18	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/04/20 17:18	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		08/04/20 17:18	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Sample: MW-15 **Lab ID: 40212167006** Collected: 07/31/20 15:50 Received: 08/03/20 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/04/20 17:18	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		08/04/20 17:18	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/04/20 17:18	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/04/20 17:18	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/04/20 17:18	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/04/20 17:18	1330-20-7	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/04/20 17:18	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/04/20 17:18	10061-01-5	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/04/20 17:18	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/04/20 17:18	103-65-1	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/04/20 17:18	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/04/20 17:18	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/04/20 17:18	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		08/04/20 17:18	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/04/20 17:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		08/04/20 17:18	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		08/04/20 17:18	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		08/04/20 17:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

QC Batch: 361986 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40212167001, 40212167002, 40212167003, 40212167004, 40212167005, 40212167006

METHOD BLANK: 2092470 Matrix: Water
Associated Lab Samples: 40212167001, 40212167002, 40212167003, 40212167004, 40212167005, 40212167006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	08/04/20 08:23	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/04/20 08:23	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	08/04/20 08:23	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	08/04/20 08:23	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/04/20 08:23	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/04/20 08:23	
1,1-Dichloropropene	ug/L	<0.54	1.8	08/04/20 08:23	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	08/04/20 08:23	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	08/04/20 08:23	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/04/20 08:23	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/04/20 08:23	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	08/04/20 08:23	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	08/04/20 08:23	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	08/04/20 08:23	
1,2-Dichloroethane	ug/L	<0.28	1.0	08/04/20 08:23	
1,2-Dichloropropane	ug/L	<0.28	1.0	08/04/20 08:23	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/04/20 08:23	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	08/04/20 08:23	
1,3-Dichloropropane	ug/L	<0.83	2.8	08/04/20 08:23	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	08/04/20 08:23	
2,2-Dichloropropane	ug/L	<2.3	7.6	08/04/20 08:23	
2-Chlorotoluene	ug/L	<0.93	5.0	08/04/20 08:23	
4-Chlorotoluene	ug/L	<0.76	2.5	08/04/20 08:23	
Benzene	ug/L	<0.25	1.0	08/04/20 08:23	
Bromobenzene	ug/L	<0.24	1.0	08/04/20 08:23	
Bromochloromethane	ug/L	<0.36	5.0	08/04/20 08:23	
Bromodichloromethane	ug/L	<0.36	1.2	08/04/20 08:23	
Bromoform	ug/L	<4.0	13.2	08/04/20 08:23	
Bromomethane	ug/L	<0.97	5.0	08/04/20 08:23	
Carbon tetrachloride	ug/L	<1.1	3.6	08/04/20 08:23	
Chlorobenzene	ug/L	<0.71	2.4	08/04/20 08:23	
Chloroethane	ug/L	<1.3	5.0	08/04/20 08:23	
Chloroform	ug/L	<1.3	5.0	08/04/20 08:23	
Chloromethane	ug/L	<2.2	7.3	08/04/20 08:23	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	08/04/20 08:23	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	08/04/20 08:23	
Dibromochloromethane	ug/L	<2.6	8.7	08/04/20 08:23	
Dibromomethane	ug/L	<0.94	3.1	08/04/20 08:23	
Dichlorodifluoromethane	ug/L	<0.50	5.0	08/04/20 08:23	
Diisopropyl ether	ug/L	<1.9	6.3	08/04/20 08:23	

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QUALITY CONTROL DATA

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

METHOD BLANK: 2092470 Matrix: Water
Associated Lab Samples: 40212167001, 40212167002, 40212167003, 40212167004, 40212167005, 40212167006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	08/04/20 08:23	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	08/04/20 08:23	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	08/04/20 08:23	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/04/20 08:23	
Methylene Chloride	ug/L	<0.58	5.0	08/04/20 08:23	
n-Butylbenzene	ug/L	<0.71	2.4	08/04/20 08:23	
n-Propylbenzene	ug/L	<0.81	5.0	08/04/20 08:23	
Naphthalene	ug/L	<1.2	5.0	08/04/20 08:23	
p-Isopropyltoluene	ug/L	<0.80	2.7	08/04/20 08:23	
sec-Butylbenzene	ug/L	<0.85	5.0	08/04/20 08:23	
Styrene	ug/L	<3.0	10.0	08/04/20 08:23	
tert-Butylbenzene	ug/L	<0.30	1.0	08/04/20 08:23	
Tetrachloroethene	ug/L	<0.33	1.1	08/04/20 08:23	
Toluene	ug/L	<0.27	0.90	08/04/20 08:23	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	08/04/20 08:23	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	08/04/20 08:23	
Trichloroethene	ug/L	<0.26	1.0	08/04/20 08:23	
Trichlorofluoromethane	ug/L	<0.21	1.0	08/04/20 08:23	
Vinyl chloride	ug/L	<0.17	1.0	08/04/20 08:23	
Xylene (Total)	ug/L	<1.5	3.0	08/04/20 08:23	
4-Bromofluorobenzene (S)	%	91	70-130	08/04/20 08:23	
Dibromofluoromethane (S)	%	96	70-130	08/04/20 08:23	
Toluene-d8 (S)	%	103	70-130	08/04/20 08:23	

LABORATORY CONTROL SAMPLE: 2092471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	50.8	102	64-131	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	47.8	96	69-163	
1,1-Dichloroethene	ug/L	50	49.3	99	77-123	
1,2,4-Trichlorobenzene	ug/L	50	45.2	90	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.4	89	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	50.1	100	78-142	
1,2-Dichloropropane	ug/L	50	51.1	102	86-134	
1,3-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Bromodichloromethane	ug/L	50	49.2	98	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	37.6	75	39-129	

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QUALITY CONTROL DATA

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

LABORATORY CONTROL SAMPLE: 2092471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.6	105	70-132	
Chlorobenzene	ug/L	50	53.7	107	70-130	
Chloroethane	ug/L	50	46.6	93	66-140	
Chloroform	ug/L	50	49.6	99	75-132	
Chloromethane	ug/L	50	36.3	73	32-143	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dichlorodifluoromethane	ug/L	50	32.3	65	10-141	
Ethylbenzene	ug/L	50	53.1	106	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	70-130	
Methyl-tert-butyl ether	ug/L	50	43.5	87	61-129	
Methylene Chloride	ug/L	50	47.3	95	70-130	
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	47.0	94	70-130	
Toluene	ug/L	50	52.5	105	80-120	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.9	92	69-130	
Trichloroethene	ug/L	50	51.3	103	70-130	
Trichlorofluoromethane	ug/L	50	56.9	114	75-145	
Vinyl chloride	ug/L	50	45.5	91	51-140	
Xylene (Total)	ug/L	150	158	106	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			92	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2092999 2093000

Parameter	Units	40212167002		MSD		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,1,1-Trichloroethane	ug/L	<61.2	25000	25000	27400	27200	109	109	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<68.8	25000	25000	27800	27700	111	111	64-137	0	20		
1,1,2-Trichloroethane	ug/L	<138	25000	25000	28200	27700	113	111	70-137	2	20		
1,1-Dichloroethane	ug/L	<68.1	25000	25000	26000	25900	104	104	69-163	0	20		
1,1-Dichloroethene	ug/L	<61.2	25000	25000	26300	26200	105	105	77-129	0	20		
1,2,4-Trichlorobenzene	ug/L	<238	25000	25000	24400	24800	98	99	68-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<441	25000	25000	24700	24000	99	96	60-130	3	20		
1,2-Dibromoethane (EDB)	ug/L	<207	25000	25000	27400	26500	110	106	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<176	25000	25000	27800	27400	111	110	70-130	1	20		
1,2-Dichloroethane	ug/L	<70.0	25000	25000	26800	26700	107	107	78-145	1	20		
1,2-Dichloropropane	ug/L	<70.7	25000	25000	27900	27700	111	111	86-135	0	20		
1,3-Dichlorobenzene	ug/L	<157	25000	25000	27500	27400	110	110	70-130	0	20		
1,4-Dichlorobenzene	ug/L	<236	25000	25000	28300	28100	113	112	70-130	1	20		
Benzene	ug/L	<61.6	25000	25000	25800	25900	103	103	70-136	0	20		

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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QUALITY CONTROL DATA

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2092999		2093000		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40212167002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Bromodichloromethane	ug/L	<90.9	25000	25000	27100	26900	108	108	70-130	0	20	
Bromoform	ug/L	<993	25000	25000	28000	27500	112	110	69-130	2	20	
Bromomethane	ug/L	<243	25000	25000	22300	21500	89	86	39-138	4	20	
Carbon tetrachloride	ug/L	<269	25000	25000	28500	28300	114	113	70-142	1	20	
Chlorobenzene	ug/L	<178	25000	25000	29200	29200	117	117	70-130	0	20	
Chloroethane	ug/L	<336	25000	25000	24900	24600	99	98	61-149	1	20	
Chloroform	ug/L	<318	25000	25000	27100	27100	108	108	75-133	0	20	
Chloromethane	ug/L	<547	25000	25000	18800	18300	75	72	32-143	3	20	
cis-1,2-Dichloroethene	ug/L	<67.8	25000	25000	25600	25900	102	104	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<907	25000	25000	26200	25600	105	102	70-130	3	20	
Dibromochloromethane	ug/L	<650	25000	25000	27100	26400	108	106	70-130	2	20	
Dichlorodifluoromethane	ug/L	<125	25000	25000	15100	14700	60	59	10-141	3	20	
Ethylbenzene	ug/L	<79.6	25000	25000	29000	28700	116	115	80-120	1	20	
Isopropylbenzene (Cumene)	ug/L	<422	25000	25000	28800	28800	115	115	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<311	25000	25000	23600	23500	95	94	61-136	1	20	
Methylene Chloride	ug/L	<145	25000	25000	25500	25100	102	101	68-137	2	20	
Styrene	ug/L	<752	25000	25000	30200	29600	121	118	70-130	2	20	
Tetrachloroethene	ug/L	15800	25000	25000	38600	38500	91	91	70-130	0	20	
Toluene	ug/L	<67.4	25000	25000	28700	28400	115	113	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<116	25000	25000	28000	27300	112	109	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<1090	25000	25000	25300	24700	101	99	69-130	2	20	
Trichloroethene	ug/L	<63.8	25000	25000	27500	27600	110	110	70-130	0	20	
Trichlorofluoromethane	ug/L	<53.7	25000	25000	30000	30200	120	121	74-157	0	20	
Vinyl chloride	ug/L	<43.7	25000	25000	23700	23300	95	93	51-140	2	20	
Xylene (Total)	ug/L	<375	75000	75000	86200	85500	115	114	70-130	1	20	
4-Bromofluorobenzene (S)	%						98	98	70-130			
Dibromofluoromethane (S)	%						92	93	70-130			
Toluene-d8 (S)	%						104	103	70-130			

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QUALIFIERS

Project: IMOGENES CLEANING CENTER

Pace Project No.: 40212167

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IMOGENES CLEANING CENTER
Pace Project No.: 40212167

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40212167001	MW-7	EPA 8260	361986		
40212167002	MW-8	EPA 8260	361986		
40212167003	PZ-9	EPA 8260	361986		
40212167004	TW-12	EPA 8260	361986		
40212167005	PZ-14	EPA 8260	361986		
40212167006	MW-15	EPA 8260	361986		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name: SAND CREEK
 Branch/Location: PLYMOUTH
 Project Contact: KEN EBBOTT
 Phone: 920 918 9024
 Project Number: 1MO6EMES
 Project Name: 1MO6EMES CLEANWG
 Project State: WI CENTER
 Sampled By (Print): KEN EBBOTT
 Sampled By (Sign): Ken EBBOTT

Regulatory Program:

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	ANALYSES REQUESTED
		DATE	TIME				
001	MW-7	7-31-20	15:40	GW	N	B	VOC'S
002	MW-8		16:00				
003	P2-9		15:45				
004	TW-12		16:15				
005	P2-14		15:55				
006	MW-15		15:30				

Quote #: DRF X
 Mail To Contact: Ken Ebbott
 Mail To Company: SAND CREEK
 Mail To Address: W5877 Pleasant Lane Plymouth WI 53073
 Invoice To Contact: ROGER DULMES
 Invoice To Company: 1MO6EMES CLEANWG
 Invoice To Address: c/o SAND CREEK
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
*SO/VOC on GW		

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

Transmit Prelim Rush Results by (complete what you want):


Email #1: Ken.Ebbott@wi.scc.com
 Email #2:
 Telephone:
 Fax:

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

Relinquished By: Ken EBBOTT Date/Time: 8-3-20/10:30
 Relinquished By: [Signature] Date/Time: 8/3/20 1300
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Received By: [Signature] Date/Time: 8/3/20 1030
 Received By: Susan [Signature] Date/Time: 8/3/20 1300
 Received By: [Signature] Date/Time:
 Received By: Date/Time:

PACE Project No. 40212167
 Receipt Temp: ROT °C
 Sample Receipt pH: OK / Adjusted
 Cooler Custody Seal Present (Not Present) Intact / Not Intact

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Sand Creek
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project # **WO#: 40212167**



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 - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: ROT /Corr: _____
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 8-3-20 /Initials: SKW
 Labeled By Initials: MH

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.
- 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.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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 type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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