Revitalizing Auto Communities Environmental Response Trust (RACER)

Joslyn South Parcel Investigation Report

Pontiac North Campus

July 15, 2022

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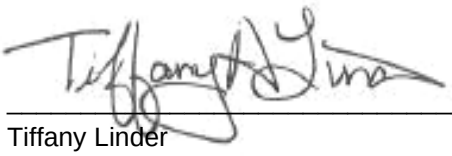
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1 Introduction

Arcadis of Michigan, LLC (Arcadis) prepared this report on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER). This report describes the planning, implementation, and results of subsurface screening investigation activities conducted by Arcadis at a vacant 0.455-acre parcel (Parcel ID 14-21-205-001) in the vicinity of the RACER Pontiac North Site in Pontiac, Michigan. The parcel (herein referred to as the Joslyn South Parcel or "Site") is bounded to the west by Joslyn Avenue, north by Wesbrook Street, south by Lenox Avenue, and east by residential properties. The Site is owned by RACER Properties, LLC, a wholly owned subsidiary of RACER. The location of the Site is shown on **Figure 1**.

RACER's objective is to obtain no further action status for the Site based on completing necessary response activities, which are anticipated to include recording deed restrictions such as restricting use to non-residential, prohibiting installation of wells and use of groundwater, requiring contaminated soil management, and requiring soil vapor management.

On behalf of RACER, Arcadis previously submitted an investigation report titled "Joslyn – Wesbrook South Parcel Screening Investigation Report" on August 24th, 2021. The report summarized field activities, analytical results, and conclusions from the initial Site investigation and made recommendations for further investigation. The recommendations included the following scope of work:

- Delineation of soil impacts by installing additional soil borings
- Installation of additional groundwater monitoring wells to delineate groundwater impacts
- Installation of soil vapor monitoring points to assess potential soil vapor risks

2 Investigation Activities

A second mobilization was initiated in November-December 2021 to implement the recommended investigation. The locations of the investigative borings are shown on **Figure 1**. The following summarizes what was completed during the supplemental investigation:

- Utility clearance activities
- Abandoned three existing temporary monitoring wells and converted the remaining eight temporary monitoring wells to finished monitoring wells.
- 19 soil borings were advanced via direct-push drilling technology.
- All soil borings were logged continuously by an Arcadis geologist and all soil cores were field screened using a PID.
- 13 of the 19 locations were converted into permanent monitoring wells.
  - The wells were installed using hollow stem auger drilling techniques and 2-inch diameter Schedule-40 PVC well construction materials equipped with 5-foot, 10-slot PVC screens targeting the top of the water table.
- Up to two soil samples were collected from each boring, one at the highest PID detection and 1 immediately above the observed water table. Soil samples were submitted for laboratory analysis of VOCs via USEPA Method 8260.
- Groundwater samples were collected from each of the monitoring wells and submitted for laboratory analysis of VOCs via USEPA Method 8260.

The investigation also included development of monitoring wells using pump and surge methods; and surveying each monitoring well location for horizontal coordinates, ground elevation, and top-of-casing to assist in the determination of groundwater flow direction at the Site. Soil vapor monitoring points could not be installed due to the shallow water table encountered while drilling, which inhibited the proper construction of the monitoring points.

3 Investigation Summary

3.1 Soil Conditions and Analytical Results

The Site has a consistent medium to coarse grained sand layer from approximately 0 – 4 feet bgs. Underlying the sand layer is a high plasticity clay layer with inconsistent clayey-sand and sand seams. Two cross sections were created based on the soil boring logs to assess the current geology at the Site, one from north to south (**Figure 2A**), and one from west to east (**Figure 2B**). The soil boring logs are provided in **Appendix A**.

During the investigation, the soil cores were field screened using a PID. PID values were used to bias the sampling intervals of the soil analytical samples to higher PID values. The PID values and soil sampling intervals have been posted on the boring logs provided as **Appendix A**.

Soil samples collected for laboratory analysis were submitted to Merit Laboratories. The Merit Laboratories soil sample analytical report is included in **Appendix B**. Soil sampling analytical results are tabulated in **Table 1** and compared to EGLE Clean-up Criteria. A “Site-specific volatilization to indoor air criteria (SSVIAC) and site-specific target levels request form” was submitted to EGLE on February 22, 2022. Residential Part 201 SSVIAC (unrestricted site-specific values for a residential house that has a basement foundation, shallow groundwater, and USDA soil type of sand) was transmitted from EGLE on April 21, 2022. Non-residential SSVIAC were calculated based on the residential criteria received from EGLE. It is noted that results were compared to residential criteria to allow for evaluation of possible off-site impacts that could warrant further evaluation.

In summary, there were detections of VOCs in 12 of the 30 soil borings. **Figure 3** is a soil analytical data map depicting the results of soil sampling at the Site. For the 12 locations where VOCs were detected in soil, 11 locations exceeded non-residential SSVIAC criteria. Compounds are identified on **Figure 3** and notated accordingly based on if potentially relevant EGLE Clean-up Criteria exceedances exist.

3.2 Groundwater Condition and Analytical Results

A groundwater gauging event was completed on December 28, 2021, and groundwater sampling took place between December 29, 2021 and January 7, 2022. The groundwater gauging measurements are summarized in **Table 2**. Groundwater sampling logs are provided in **Appendix C**. The results of the groundwater gauging event indicates that the groundwater is encountered at depths ranging from 0.6 – 9.88 feet bgs and groundwater flow direction in the vicinity of the impacts is to the south-southeast, as shown on **Figure 4**.

Groundwater samples were collected via low-flow sampling techniques and submitted to Merit Laboratories for analysis of VOCs. The Merit Laboratories groundwater sample analytical report is included in **Appendix B**. Groundwater sampling analytical results are tabulated in **Table 3** and compared to EGLE Clean-up Criteria and SSVIAC. It is noted that results were compared to residential criteria to allow for evaluation of possible off-site impacts that could warrant further evaluation.

In summary, there were detections of VOCs in nine of the twenty-four wells: **Figure 5** is a groundwater analytical data map depicting the results of groundwater sampling at the Site. For the nine locations where VOCs were detected in groundwater, eight locations had at least one criteria exceeded. Compounds are identified on the groundwater analytical data map and notated accordingly based on if potentially relevant EGLE Clean-up Criteria exceedances exist. Three wells on the north end of the parcel were abandoned based on the initial analytical results, and 13 of the previously installed temporary wells were converted to finished wells for continued monitoring. Abandonment logs can be found in **Appendix D**.

3.3 Utilities

A desktop and field review of utilities in the area of the Site was completed to identify potential preferential contaminant migration pathways on and offsite. There is an offsite 12" water main that runs North-South to the West of the site. An offsite 6" East-West water main South of the property runs into the North-South line and provides service to residential and non-residential properties North and South of Lenox Avenue. There is also a 12" storm sewer and 12" sanitary sewer that starts just to the Southeast of the Site and runs West-East on Lenox Avenue. The storm sewer is around 5.2 - 6.3 feet below ground surface, and the sanitary sewer is 8.4 - 10.6 feet below ground surface. In addition, a 4" gas line runs East-West in the ROW of Lenox Avenue and provides service to multiple properties North and South of the street, to the extent investigated. The utilities found are depicted in **Figure 1.**

4 Next Steps

Based on historical details summarized in the Arcadis Technical Memorandum and the results of subsurface investigation activities described in this and previous Site investigation reports, groundwater samples were collected from select existing monitoring wells in 2nd quarter of 2022 per USEPA Low Flow Sampling guidance (USEPA 2017). Samples were containerized and submitted to Merit Laboratories, Inc. in Lansing, MI for analysis of VOCs utilizing USEPA Method 8260C. During sampling, purge water was monitored for dissolved oxygen (DO), temperature, specific conductivity, turbidity, oxidation-reduction potential (ORP), and pH and recorded on a Groundwater Sampling Log. The results from this sampling event will be summarized in a brief technical memo and submitted to USEPA and EGLE. Two additional quarterly monitoring events will be completed so that data is available from four consecutive events.

In addition, the following is recommended:

- Complete additional investigative borings off-site in the City of Pontiac right-of-way located to the east of the Site. The proposed location of the borings is shown on **Figure 6**. The proposed investigation will include the following:
  - 3 soil borings advanced via direct-push drilling technology to the water table or first saturated zone.
  - All soils will be logged by an Arcadis geologist in accordance with the Arcadis Soil Logging TGI and field screened using a PID.
  - At each boring, 1 grab groundwater sample will be collected at the observed water table for laboratory analysis of VOCs via USEPA Method 8260.
  - Samples will be submitted to Merit Laboratories on a standard 10-day turnaround time.
  - If no impacts in groundwater are detected above the SSVIAC, then one 2-inch monitoring well will be installed as a delineation point for on-site impacts. The well location will be near the boring with the highest VOC detections or directly east of JS-MW-19. However, if impacts to groundwater are detected

above the SSVIAC additional investigation may be recommended on the residential property to delineate Site related impacts.

- The results of the additional investigative borings, including the evaluation of potential exposure pathways and risk, will be summarized in a report to be submitted to USEPA and EGLE. Any further activities are dependent upon the investigation results and evaluations.

5 References

Arcadis 2021a. Joslyn Avenue Parcels Historical Summary Memorandum and Request for Determination for Parcels Not Being Regulated Under RCRA, including Corrective Action, and Not Being Covered Under Administrative Order on Consent RCRA-05-2011-00019, RACER Trust, Pontiac Michigan, January 19, 2021.

Arcadis 2021b. Joslyn – Wesbrook South Parcel Screening Investigation Report, RACER Trust, Pontiac Michigan, August 24, 2021.

EGLE. 2020. Clean Up Criteria Requirements Table 1: Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels, December 21, 2020.

EGLE. 2022. SSVIAC for RACER PNC Joslyn South Parcel Property Table1: Residential Part 201 SSVIAC or Part 213 VIAP STTLs, April 21, 2022.

U.S. Environmental Protection Agency (USEPA; Region I). 1996. Low-Stress (or Low-Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells – Revision 4. July 30, 1996; Revised September 19, 2017.

Tables

Table 1
Soil Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-SB-01	JS-SB-02	JS-MW-03	JS-MW-03	JS-MW-04	JS-MW-05	JS-MW-05	JS-MW-06	JS-MW-07	JS-MW-07 (Dup-01)
									Date Collected	4/29/2021	4/27/2021	4/28/2021	4/28/2021	4/28/2021	4/28/2021	4/28/2021	4/28/2021	4/29/2021	4/29/2021
									Start Depth (ft. bgs)	7.5	11	2	11.2	4.6	5	7	12.1	12.4	12.4
									End Depth (ft. bgs)	8.5	12	3	12.2	5.6	6	8	13.1	13.4	13.4
MISC																			
Total solids	%	--	--	--	**--**	--	--	--		89	90	87	89	87	90	89	90	88	89
PAHS																			
1-Methylnaphthalene	ug/kg	--	--	--	**--**	--	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	5,100	7,100	< 300 U	< 300 U	< 300 U
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	12,600	17,600	< 300 U	< 300 U	< 300 U
Acenaphthene	ug/kg	8,700	300,000	880,000	**41,000,000**	*130,000,000*	200,000	3,600,000		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Acenaphthylene	ug/kg	--	5,900	17,000	**1,600,000**	*5,200,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Anthracene	ug/kg	--	41,000	41,000	**230,000,000**	*730,000,000*	13,000,000	220,000,000		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Benzo(a)anthracene	ug/kg	--	--	--	**20,000**	*80,000*	160,000	11,000,000		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Benzo(a)pyrene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Benzo(b)fluoranthene	ug/kg	--	--	--	**20,000**	*80,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Benzo(g,h,i)perylene	ug/kg	--	--	--	**2,500,000**	*7,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Benzo(k)fluoranthene	ug/kg	--	--	--	**200,000**	*800,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Chrysene	ug/kg	--	--	--	**2,000,000**	*8,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Dibenz(a,h)anthracene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Fluoranthene	ug/kg	5,500	730,000	730,000	**46,000,000**	*130,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Fluorene	ug/kg	5,300	390,000	890,000	**27,000,000**	*87,000,000*	470,000	8,300,000		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	**20,000**	--	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	8,800	14,700	< 300 U	< 300 U	< 300 U
Phenanthrene	ug/kg	2,100	56,000	160,000	**1,600,000**	*5,200,000*	1,700	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Pyrene	ug/kg	--	480,000	480,000	**29,000,000**	*84,000,000*	25,000,000	440,000,000		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
VOCs																			
1,1,1,2-Tetrachloroethane	ug/kg	--	1,500	6,400	**480,000**	*2,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
1,1,1-Trichloroethane	ug/kg	1,800	4,000	4,000	**500,000,000**	*1,000,000,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,1,2,2-Tetrachloroethane	ug/kg	1,600	170	700	**53,000**	*240,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,1,2-Trichloroethane	ug/kg	6,600	100	100	**180,000**	*840,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,1-Dichloroethane	ug/kg	15,000	18,000	50,000	**27,000,000**	*87,000,000*	2.6	74		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,1-Dichloroethene	ug/kg	2,600	140	140	**200,000**	*660,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	**--**	--	--	--		< 410 U	< 410 U	< 430 U	< 410 U	< 420 U	< 3,800 UY	< 20,000 UY	< 400 U	< 420 U	< 420 U
1,2,3-Trichloropropane	ug/kg	--	840	2,400	**1,300,000**	*4,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
1,2,4-Trichlorobenzene	ug/kg	5,900	4,200	4,200	**990,000**	*5,800,000*	--	--		< 410 U	< 410 U	< 430 U	< 410 U	< 420 U	< 3,800 UY	< 20,000 UY	< 400 U	< 420 U	< 420 U
1,2,4-Trimethylbenzene	ug/kg	570	2,100	2,100	**32,000,000**	*100,000,000*	150	2,600		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	6,700 Y	136,000 Y	< 60 U	< 60 U	< 60 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	10	10	**4,400**	*20,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	110	20	20	**92**	*430*	0.074	2.1		< 20 UM	< 20 UM	< 30 UM	< 20 UM	< 30 UM	< 200 UYM	< 1,000 UYM	< 20 UM	< 30 UM	< 30 UM
1,2-Dichlorobenzene	ug/kg	280	14,000	14,000	**19,000,000**	*63,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
1,2-Dichloroethane	ug/kg	7,200	100	100	**91,000**	*420,000*	0.82	23		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,2-Dichloropropane	ug/kg	4,600	100	100	**140,000**	*660,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
1,3,5-Trimethylbenzene	ug/kg	1,100	1,800	1,800	**32,000,000**	*100,000,000*	100	1,800		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	6,000 Y	48,000 Y	< 60 U	< 60 U	< 60 U
1,3-Dichlorobenzene	ug/kg	680	170	480	**200,000**	*660,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
1,4-Dichlorobenzene	ug/kg	360	1,700	1,700	**400,000**	*1,900,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	44,000	260,000	760,000	**120,000,000**	*700,000,000*	31,000	370,000		< 930 U	< 920 U	< 980 U	< 920 U	< 960 U	< 8,700 UY	< 46,000 UY	< 900 U	< 950 U	< 950 U
2-Hexanone	ug/kg	--	20,000	58,000	**32,000,000**	*100,000,000*	--	--		< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 30,000 UY	< 200,000 UY	< 3,000 U	< 3,000 U	< 3,000 U
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	12,000 Y	40,000 Y	< 100 U	< 100 U	< 100 U
2-Phenylbutane (sec-Butylbenzene)	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	3,800	49,000		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	--	--	--	**56,000,000**	--	3,300	150,000		< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 30,000 UY	< 200,000 UY	< 3,000 U	< 3,000 U	< 3,000 U
Acetone	ug/kg	34,000	15,000	42,000	**23,000,000**	*73,000,000*	260,000	3,100,000		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 10,000 UY	< 60,000 UY	< 1,000 U	< 1,000 U	< 1,000 U
Acrylonitrile	ug/kg	100	100	220	**16,000**	*74,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Benzene	ug/kg	4,000	100	100	**180,000**	*840,000*	1.7	47		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Bromobenzene	ug/kg	--	550	1,500	**540,000**	*1,700,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Bromodichloromethane	ug/kg	--	1,600	1,600	**110,000**	*490,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Bromoform	ug/kg	--	1,600	1,600	**820,000**	*3,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Bromomethane (Methyl bromide)	ug/kg	700	200	580	**320,000**	*1,000,000*	--	--		< 200 U	< 200 U	< 300 U	< 200 U	< 300 U	< 2,000 UY	< 10,000 UY	< 200 U	< 300 U	< 300 U
Carbon disulfide	ug/kg	--	16,000	46,000	**7,200,000**	*43,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
Carbon tetrachloride	ug/kg	900	100	100	**96,000**	*440,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Chlorobenzene	ug/kg	500	2,000	2,000	**4,300,000**	*14,000,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Chlorobromomethane	ug/kg	--	--	--	**--**	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Chloroethane	ug/kg	22,000	8,600	34,000	**2,600,000**	*12,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
Chloroform (Trichloromethane)	ug/kg	7,000	1,600	1,600	**1,200,000**	*5,500,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Chloromethane (Methyl chloride)	ug/kg	--	5,200	22,000	**1,600,000**	*7,400,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
cis-1,2-Dichloroethene	ug/kg	12,000	1,400	1,400	**2,500,000**	*8,000,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	**--**	--	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U

Table 1
Soil Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-SB-01	JS-SB-02	JS-MW-03	JS-MW-03	JS-MW-04	JS-MW-05	JS-MW-05	JS-MW-06	JS-MW-07	JS-MW-07 (Dup-01)
									Date Collected	4/29/2021	4/27/2021	4/28/2021	4/28/2021	4/28/2021	4/28/2021	4/28/2021	4/28/2021	4/29/2021	4/29/2021
									Start Depth (ft. bgs)	7.5	11	2	11.2	4.6	5	7	12.1	12.4	12.4
									End Depth (ft. bgs)	8.5	12	3	12.2	5.6	6	8	13.1	13.4	13.4
Cymene (p-Isopropyltoluene)	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Dibromochloromethane	ug/kg	--	1,600	1,600	**110,000**	*500,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Dibromomethane	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
Dichlorodifluoromethane (CFC-12)	ug/kg	--	95,000	270,000	**52,000,000**	*170,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
Ethyl ether	ug/kg	--	200	200	**110,000,000**	*360,000,000*	--	--		< 200 U	< 200 U	< 300 U	< 200 U	< 300 U	< 2,000 UY	< 10,000 UY	< 200 U	< 300 U	< 300 U
Ethylbenzene	ug/kg	360	1,500	1,500	--	*71,000,000*	12	340		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	9,000 Y	48,000 Y	< 60 U	< 60 U	< 60 U
Hexachloroethane	ug/kg	1,800	430	1,200	**230,000**	*730,000*	--	--		< 400 U	< 400 U	< 400 U	< 400 U	< 400 U	< 3,000 UY	< 20,000 UY	< 400 U	< 400 U	< 400 U
Iodomethane	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Isopropyl benzene	ug/kg	3,200	91,000	260,000	**25,000,000**	*80,000,000*	3.8	110		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 3,000 UY	< 20,000 UY	< 300 U	< 300 U	< 300 U
m&p-Xylene	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	18,000 Y	220,000 Y	< 100 U	< 100 U	< 100 U
Methyl tert butyl ether (MTBE)	ug/kg	140,000	800	800	**1,500,000**	*7,100,000*	74	2,100		< 200 U	< 200 U	< 300 U	< 200 U	< 300 U	< 2,000 UY	< 10,000 UY	< 200 U	< 300 U	< 300 U
Methylene chloride	ug/kg	30,000	100	100	**1,300,000**	*5,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	10,000 Y	40,000 Y	< 300 U	< 300 U	< 300 U
N-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	550	9,800		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	3,900 Y	15,000 Y	< 60 U	< 60 U	< 60 U
N-Propylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	1,800	21,000		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	4,600 Y	19,000 Y	< 60 U	< 60 U	< 60 U
o-Xylene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Styrene	ug/kg	2,100	2,700	2,700	**400,000**	*1,900,000*	150	4,300		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
tert-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	0.64	11		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Tetrachloroethene	ug/kg	1,200	100	100	**200,000**	*930,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Tetrahydrofuran	ug/kg	220,000	1,900	5,400	**2,900,000**	*9,500,000*	--	--		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 10,000 UY	< 60,000 UY	< 1,000 U	< 1,000 U	< 1,000 U
Toluene	ug/kg	5,400	16,000	16,000	**50,000,000**	*160,000,000*	3,700	64,000		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
trans-1,2-Dichloroethene	ug/kg	30,000	2,000	2,000	**3,800,000**	*12,000,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
trans-1,4-Dichloro-2-butene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Trichloroethene	ug/kg	4,000	100	100	**110,000**	*660,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Trichlorofluoromethane (CFC-11)	ug/kg	--	52,000	150,000	**79,000,000**	*260,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 1,000 UY	< 6,000 UY	< 100 U	< 100 U	< 100 U
Vinyl chloride	ug/kg	260	40	40	--	*34,000*	--	--		< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 600 UY	< 3,000 UY	< 60 U	< 60 U	< 60 U
Xylene (total)	ug/kg	820	5,600	5,600	**410,000,000**	*1,000,000,000*	280	5,000		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	18,000 Y	220,000 Y	< 100 U	< 100 U	< 100 U

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Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG		Location ID	JS-SB-08	JS-SB-08 (Dup-02)	JS-MW-09	JS-MW-09	JS-MW-10	JS-MW-11	JS-SB-12	JS-SB-12	JS-SB-13	JS-SB-14
										Date Collected	4/29/2021	4/29/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021
										Start Depth (ft. bgs)	4.2	4.2	9	10	14	12.4	12	23	11	6
										End Depth (ft. bgs)	5.2	5.2	10	11	15	13.4	13	24	12	8
MISC																				
Total solids	%	--	--	--	**--**	--	--	--			84	85	88	88	91	90	NA	NA	NA	NA
PAHS																				
1-Methylnaphthalene	ug/kg	--	--	--	**--**	--	--	--			< 300 U	< 300 U	500	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000			< 300 U	< 300 U	1,000	500	< 300 U	< 300 U	NA	NA	NA	NA
Acenaphthene	ug/kg	8,700	300,000	880,000	**41,000,000**	*130,000,000*	200,000	3,600,000			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Acenaphthylene	ug/kg	--	5,900	17,000	**1,600,000**	*5,200,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Anthracene	ug/kg	--	41,000	41,000	**230,000,000**	*730,000,000*	13,000,000	220,000,000			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	--	--	--	**20,000**	*80,000*	160,000	11,000,000			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	--	--	--	**2,000**	*8,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	--	--	--	**20,000**	*80,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	--	--	--	**2,500,000**	*7,000,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	--	--	--	**200,000**	*800,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Chrysene	ug/kg	--	--	--	**2,000,000**	*8,000,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	--	--	--	**2,000**	*8,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Fluoranthene	ug/kg	5,500	730,000	730,000	**46,000,000**	*130,000,000*	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Fluorene	ug/kg	5,300	390,000	890,000	**27,000,000**	*87,000,000*	470,000	8,300,000			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	**20,000**	--	--	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900			< 300 U	< 300 U	1,500	700	< 300 U	< 300 U	NA	NA	NA	NA
Phenanthrene	ug/kg	2,100	56,000	160,000	**1,600,000**	*5,200,000*	1,700	--			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
Pyrene	ug/kg	--	480,000	480,000	**29,000,000**	*84,000,000*	25,000,000	440,000,000			< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	NA	NA	NA	NA
VOCs																				
1,1,1,2-Tetrachloroethane	ug/kg	--	1,500	6,400	**480,000**	*2,200,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,1,1-Trichloroethane	ug/kg	1,800	4,000	4,000	**500,000,000**	*1,000,000,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1,2,2-Tetrachloroethane	ug/kg	1,600	170	700	**53,000**	*240,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1,2-Trichloroethane	ug/kg	6,600	100	100	**180,000**	*840,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1-Dichloroethane	ug/kg	15,000	18,000	50,000	**27,000,000**	*87,000,000*	2.6	74			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1-Dichloroethene	ug/kg	2,600	140	140	**200,000**	*660,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	**--**	--	--	--			< 480 U	< 440 U	< 4,200 UY	< 390 U	< 390 U	< 390 U	< 420 U	< 420 U	< 390 U	< 400 U
1,2,3-Trichloropropane	ug/kg	--	840	2,400	**1,300,000**	*4,200,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2,4-Trichlorobenzene	ug/kg	5,900	4,200	4,200	**990,000**	*5,800,000*	--	--			< 480 U	< 440 U	< 4,200 UY	< 390 U	< 390 U	< 390 U	< 420 U	< 420 U	< 390 U	< 400 U
1,2,4-Trimethylbenzene	ug/kg	570	2,100	2,100	**32,000,000**	*100,000,000*	150	2,600			< 70 U	< 70 U	11,400 Y	5,090	< 60 U	< 60 U	22,340 E	< 60 U	< 60 U	4,330
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	10	10	**4,400**	*20,000*	--	--			< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	110	20	20	**92**	*430*	0.074	2.1			< 30 UM	< 30 UM	< 300 UYM	< 20 UM	< 20 UM	< 20 UM	< 30 UM	< 30 UM	< 20 UM	< 20 UM
1,2-Dichlorobenzene	ug/kg	280	14,000	14,000	**19,000,000**	*63,000,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2-Dichloroethane	ug/kg	7,200	100	100	**91,000**	*420,000*	0.82	23			< 70 U	< 70 U	< 600 UY	< 60 U	110	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,2-Dichloropropane	ug/kg	4,600	100	100	**140,000**	*660,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
1,3,5-Trimethylbenzene	ug/kg	1,100	1,800	1,800	**32,000,000**	*100,000,000*	100	1,800			< 70 U	< 70 U	< 600 UY	680	< 60 U	< 60 U	6,360	< 60 U	< 60 U	140
1,3-Dichlorobenzene	ug/kg	680	170	480	**200,000**	*660,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,4-Dichlorobenzene	ug/kg	360	1,700	1,700	**400,000**	*1,900,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	44,000	260,000	760,000	**120,000,000**	*700,000,000*	31,000	370,000			< 1,100 U	< 1,000 U	< 9,500 UY	< 890 U	< 880 U	< 890 U	< 960 U	< 950 U	< 880 U	< 900 U
2-Hexanone	ug/kg	--	20,000	58,000	**32,000,000**	*100,000,000*	--	--			< 4,000 U	< 3,000 U	< 30,000 UY	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000			< 100 U	< 100 U	1,000 Y	900	< 100 U	< 100 U	2,600	< 100 U	< 100 U	400
2-Phenylbutane (sec-Butylbenzene)	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	3,800	49,000			< 70 U	< 70 U	< 600 UY	100	< 60 U	< 60 U	380	< 60 U	< 60 U	< 60 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	--	--	--	**56,000,000**	--	3,300	150,000			< 4,000 U	< 3,000 U	< 30,000 UY	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U
Acetone	ug/kg	34,000	15,000	42,000	**23,000,000**	*73,000,000*	260,000	3,100,000			< 1,000 U	< 1,000 U	< 10,000 UY	< 1,000 U	< 1,000 U	< 1,000 U	< 5,000 UX	< 1,000 U	< 1,000 U	< 1,000 U
Acrylonitrile	ug/kg	100	100	220	**16,000**	*74,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/kg	4,000	100	100	**180,000**	*840,000*	1.7	47			< 70 U	< 70 U	< 600 UY	450	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	120
Bromobenzene	ug/kg	--	550	1,500	**540,000**	*1,700,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromodichloromethane	ug/kg	--	1,600	1,600	**110,000**	*490,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromoform	ug/kg	--	1,600	1,600	**820,000**	*3,800,000*	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromomethane (Methyl bromide)	ug/kg	700	200	580	**320,000**	*1,000,000*	--	--			< 300 U	< 300 U	< 3,000 UY	< 200 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U
Carbon disulfide	ug/kg	--	16,000	46,000	**7,200,000**	*43,000,000*	--	--			< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Carbon tetrachloride	ug/kg	900	100	100	**96,000**	*440,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Chlorobenzene	ug/kg	500	2,000	2,000	**4,300,000**	*14,000,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Chlorobromomethane	ug/kg	--	--	--	**--**	--	--	--			< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Chloroethane	ug/kg	22,000	8,600	34,000	**2,600,000**	*12,000,000*	--	--			< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Chloroform (Trichloromethane)	ug/kg	7,000	1,600	1,600	**1,200,000**	*5,500,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Chloromethane (Methyl chloride)	ug/kg	--	5,200	22,000	**1,600,000**	*7,400,000*	--	--			< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
cis-1,2-Dichloroethene	ug/kg	12,000	1,400	1,400	**2,500,000**	*8,000,000*	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	**--**	--	--	--			< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U

Table 1
Soil Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-SB-08	JS-SB-08 (Dup-02)	JS-MW-09	JS-MW-09	JS-MW-10	JS-MW-11	JS-SB-12	JS-SB-12	JS-SB-13	JS-SB-14
									Date Collected	4/29/2021	4/29/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021
									Start Depth (ft. bgs)	4.2	4.2	9	10	14	12.4	12	23	11	6
									End Depth (ft. bgs)	5.2	5.2	10	11	15	13.4	13	24	12	8
Cymene (p-Isopropyltoluene)	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromochloromethane	ug/kg	--	1,600	1,600	**110,000**	*500,000*	--	--		< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromomethane	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	--	--		< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Dichlorodifluoromethane (CFC-12)	ug/kg	--	95,000	270,000	**52,000,000**	*170,000,000*	--	--		< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Ethyl ether	ug/kg	--	200	200	**110,000,000**	*360,000,000*	--	--		< 300 U	< 300 U	< 3,000 UY	< 200 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U
Ethylbenzene	ug/kg	360	1,500	1,500	--	*71,000,000*	12	340		< 70 U	< 70 U	2,100 Y	4,770	< 60 U	< 60 U	9,760	< 60 U	< 60 U	2,480
Hexachloroethane	ug/kg	1,800	430	1,200	**230,000**	*730,000*	--	--		< 400 U	< 400 U	< 4,000 UY	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U
Iodomethane	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Isopropyl benzene	ug/kg	3,200	91,000	260,000	**25,000,000**	*80,000,000*	3.8	110		< 400 U	< 300 U	< 3,000 UY	< 300 U	< 300 U	< 300 U	800	< 300 U	< 300 U	< 300 U
m&p-Xylene	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	3,000 Y	4,500	< 100 U	< 100 U	32,700 E	< 100 U	< 100 U	3,800
Methyl tert butyl ether (MTBE)	ug/kg	140,000	800	800	**1,500,000**	*7,100,000*	74	2,100		< 300 U	< 300 U	< 3,000 UY	< 200 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U
Methylene chloride	ug/kg	30,000	100	100	**1,300,000**	*5,800,000*	--	--		< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		< 400 U	< 300 U	< 3,000 UY	1,600	< 300 U	< 300 U	3,400	< 300 U	< 300 U	1,100
N-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	550	9,800		< 70 U	< 70 U	800 Y	510	< 60 U	< 60 U	2,300	< 60 U	< 60 U	190
N-Propylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	1,800	21,000		< 70 U	< 70 U	1,900 Y	1,490	< 60 U	< 60 U	4,460	< 60 U	< 60 U	770
o-Xylene	ug/kg	--	--	--	--	--	--	--		< 70 U	< 70 U	< 600 UY	100	< 60 U	< 60 U	2,600	< 60 U	< 60 U	70
Styrene	ug/kg	2,100	2,700	2,700	**400,000**	*1,900,000*	150	4,300		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
tert-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	0.64	11		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Tetrachloroethene	ug/kg	1,200	100	100	**200,000**	*930,000*	--	--		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Tetrahydrofuran	ug/kg	220,000	1,900	5,400	**2,900,000**	*9,500,000*	--	--		< 1,000 U	< 1,000 U	< 10,000 UY	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Toluene	ug/kg	5,400	16,000	16,000	**50,000,000**	*160,000,000*	3,700	64,000		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
trans-1,2-Dichloroethene	ug/kg	30,000	2,000	2,000	**3,800,000**	*12,000,000*	--	--		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
trans-1,4-Dichloro-2-butene	ug/kg	--	--	--	--	--	--	--		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Trichloroethene	ug/kg	4,000	100	100	**110,000**	*660,000*	--	--		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Trichlorofluoromethane (CFC-11)	ug/kg	--	52,000	150,000	**79,000,000**	*260,000,000*	--	--		< 100 U	< 100 U	< 1,000 UY	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Vinyl chloride	ug/kg	260	40	40	--	*34,000*	--	--		< 70 U	< 70 U	< 600 UY	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Xylene (total)	ug/kg	820	5,600	5,600	**410,000,000**	*1,000,000,000*	280	5,000		< 100 U	< 100 U	3,000 Y	4,600	< 100 U	< 100 U	35,300	< 100 U	< 100 U	3,870

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RACER Trust Pontiac North Campus

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									Date Collected	11/30/2021	12/2/2021	12/2/2021	12/6/2021	12/6/2021	12/6/2021	12/6/2021	12/6/2021	12/6/2021	12/2/2021
									Start Depth (ft. bgs)	10	12	16	14	16	10	14	15	17	15
									End Depth (ft. bgs)	11	13	17	15	17	11	15	16	18	16
MISC																			
Total solids	%	--	--	--	**--**	--	--	--		NA	81	91	90	91	86	91	90	90	86
PAHS																			
1-Methylnaphthalene	ug/kg	--	--	--	**--**	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	8,700	300,000	880,000	**41,000,000**	*130,000,000*	200,000	3,600,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	--	5,900	17,000	**1,600,000**	*5,200,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	--	41,000	41,000	**230,000,000**	*730,000,000*	13,000,000	220,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	--	--	--	**20,000**	*80,000*	160,000	11,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	--	--	--	**20,000**	*80,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	--	--	--	**2,500,000**	*7,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	--	--	--	**200,000**	*800,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	--	--	--	**2,000,000**	*8,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	5,500	730,000	730,000	**46,000,000**	*130,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	5,300	390,000	890,000	**27,000,000**	*87,000,000*	470,000	8,300,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	**20,000**	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	2,100	56,000	160,000	**1,600,000**	*5,200,000*	1,700	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	--	480,000	480,000	**29,000,000**	*84,000,000*	25,000,000	440,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs																			
1,1,1,2-Tetrachloroethane	ug/kg	--	1,500	6,400	**480,000**	*2,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,1,1-Trichloroethane	ug/kg	1,800	4,000	4,000	**500,000,000**	*1,000,000,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1,2,2-Tetrachloroethane	ug/kg	1,600	170	700	**53,000**	*240,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1,2-Trichloroethane	ug/kg	6,600	100	100	**180,000**	*840,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1-Dichloroethane	ug/kg	15,000	18,000	50,000	**27,000,000**	*87,000,000*	2.6	74		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,1-Dichloroethene	ug/kg	2,600	140	140	**200,000**	*660,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	**--**	--	--	--		< 400 U	< 470 U	< 390 U	< 390 U	< 380 U	< 430 U	< 390 U	< 390 U	< 400 U	< 420 U
1,2,3-Trichloropropane	ug/kg	--	840	2,400	**1,300,000**	*4,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2,4-Trichlorobenzene	ug/kg	5,900	4,200	4,200	**990,000**	*5,800,000*	--	--		< 400 U	< 470 U	< 390 U	< 390 U	< 380 U	< 430 U	< 390 U	< 390 U	< 400 U	< 420 U
1,2,4-Trimethylbenzene	ug/kg	570	2,100	2,100	**32,000,000**	*100,000,000*	150	2,600		< 60 U	35,590 E	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	10	10	**4,400**	*20,000*	--	--		< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	110	20	20	**92**	*430*	0.074	2.1		< 20 UM	< 30 UM	< 20 UM	< 20 UM	< 20 UM	< 30 UM	< 20 UM	< 20 UM	< 20 UM	< 30 UM
1,2-Dichlorobenzene	ug/kg	280	14,000	14,000	**19,000,000**	*63,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2-Dichloroethane	ug/kg	7,200	100	100	**91,000**	*420,000*	0.82	23		< 60 U	< 70 U	< 60 U	< 60 U	150	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,2-Dichloropropane	ug/kg	4,600	100	100	**140,000**	*660,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,3,5-Trimethylbenzene	ug/kg	1,100	1,800	1,800	**32,000,000**	*100,000,000*	100	1,800		< 60 U	2,950	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
1,3-Dichlorobenzene	ug/kg	680	170	480	**200,000**	*660,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,4-Dichlorobenzene	ug/kg	360	1,700	1,700	**400,000**	*1,900,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	44,000	260,000	760,000	**120,000,000**	*700,000,000*	31,000	370,000		< 910 U	< 1100 U	< 880 U	< 900 U	< 870 U	< 980 U	< 890 U	< 880 U	< 910 U	< 960 U
2-Hexanone	ug/kg	--	20,000	58,000	**32,000,000**	*100,000,000*	--	--		< 3,000 U	< 4,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		< 100 U	6,400	< 100 U	300	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
2-Phenylbutane (sec-Butylbenzene)	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	3,800	49,000		< 60 U	1250	< 60 U	130	< 60 U	200	< 60 U	< 60 U	< 60 U	< 60 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	--	--	--	**56,000,000**	--	3,300	150,000		< 3,000 U	< 4,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U
Acetone	ug/kg	34,000	15,000	42,000	**23,000,000**	*73,000,000*	260,000	3,100,000		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Acrylonitrile	ug/kg	100	100	220	**16,000**	*74,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/kg	4,000	100	100	**180,000**	*840,000*	1.7	47		6,810	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	6,400	< 60 U	< 60 U
Bromobenzene	ug/kg	--	550	1,500	**540,000**	*1,700,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromodichloromethane	ug/kg	--	1,600	1,600	**110,000**	*490,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromoform	ug/kg	--	1,600	1,600	**820,000**	*3,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromomethane (Methyl bromide)	ug/kg	700	200	580	**320,000**	*1,000,000*	--	--		< 200 U	< 300 U	< 200 U	< 200 U	< 200 U	< 300 U	< 200 U	< 200 U	< 200 U	< 300 U
Carbon disulfide	ug/kg	--	16,000	46,000	**7,200,000**	*43,000,000*	--	--		< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Carbon tetrachloride	ug/kg	900	100	100	**96,000**	*440,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Chlorobenzene	ug/kg	500	2,000	2,000	**4,300,000**	*14,000,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Chlorobromomethane	ug/kg	--	--	--	**--**	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Chloroethane	ug/kg	22,000	8,600	34,000	**2,600,000**	*12,000,000*	--	--		< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Chloroform (Trichloromethane)	ug/kg	7,000	1,600	1,600	**1,200,000**	*5,500,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Chloromethane (Methyl chloride)	ug/kg	--	5,200	22,000	**1,600,000**	*7,400,000*	--	--		< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
cis-1,2-Dichloroethene	ug/kg	12,000	1,400	1,400	**2,500,000**	*8,000,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	**--**	--	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U

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									Date Collected	11/30/2021	12/2/2021	12/2/2021	12/6/2021	12/6/2021	12/6/2021	12/6/2021	12/6/2021	12/6/2021	12/2/2021
									Start Depth (ft. bgs)	10	12	16	14	16	10	14	15	17	15
									End Depth (ft. bgs)	11	13	17	15	17	11	15	16	18	16
Cymene (p-Isopropyltoluene)	ug/kg	--	--	--	--	--	--	--		< 100 U	400	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromochloromethane	ug/kg	--	1,600	1,600	**110,000**	*500,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromomethane	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	--	--		< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Dichlorodifluoromethane (CFC-12)	ug/kg	--	95,000	270,000	**52,000,000**	*170,000,000*	--	--		< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Ethyl ether	ug/kg	--	200	200	**110,000,000**	*360,000,000*	--	--		< 200 U	< 300 U	< 200 U	< 200 U	< 200 U	< 300 U	< 200 U	< 200 U	< 200 U	< 300 U
Ethylbenzene	ug/kg	360	1,500	1,500	--	*71,000,000*	12	340		110	7,490	< 60 U	60	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Hexachloroethane	ug/kg	1,800	430	1,200	**230,000**	*730,000*	--	--		< 400 U	< 400 U	< 400 U	< 400 U	< 300 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U
Iodomethane	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Isopropyl benzene	ug/kg	3,200	91,000	260,000	**25,000,000**	*80,000,000*	3.8	110		< 300 U	1,800	< 300 U	300	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
m&p-Xylene	ug/kg	--	--	--	--	--	--	--		< 100 U	11,500	< 100 U	200	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl tert butyl ether (MTBE)	ug/kg	140,000	800	800	**1,500,000**	*7,100,000*	74	2,100		< 200 U	< 300 U	< 200 U	< 200 U	< 200 U	< 300 U	< 200 U	< 200 U	< 200 U	< 300 U
Methylene chloride	ug/kg	30,000	100	100	**1,300,000**	*5,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		< 300 U	4,700	< 300 U	1,400	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	400
N-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	550	9,800		< 60 U	4,780	< 60 U	300	< 60 U	490	< 60 U	< 60 U	< 60 U	< 60 U
N-Propylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	1,800	21,000		< 60 U	10,020	< 60 U	1,900	< 60 U	700	< 60 U	< 60 U	< 60 U	520
o-Xylene	ug/kg	--	--	--	--	--	--	--		< 60 U	120	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Styrene	ug/kg	2,100	2,700	2,700	**400,000**	*1,900,000*	150	4,300		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
tert-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	0.64	11		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Tetrachloroethene	ug/kg	1,200	100	100	**200,000**	*930,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Tetrahydrofuran	ug/kg	220,000	1,900	5,400	**2,900,000**	*9,500,000*	--	--		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Toluene	ug/kg	5,400	16,000	16,000	**50,000,000**	*160,000,000*	3,700	64,000		110	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
trans-1,2-Dichloroethene	ug/kg	30,000	2,000	2,000	**3,800,000**	*12,000,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
trans-1,4-Dichloro-2-butene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Trichloroethene	ug/kg	4,000	100	100	**110,000**	*660,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Trichlorofluoromethane (CFC-11)	ug/kg	--	52,000	150,000	**79,000,000**	*260,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Vinyl chloride	ug/kg	260	40	40	--	*34,000*	--	--		< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U
Xylene (total)	ug/kg	820	5,600	5,600	**410,000,000**	*1,000,000,000*	280	5,000		< 100 U	11,620	< 100 U	200	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U

Table 1
Soil Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-19	JS-MW-20	JS-MW-20	JS-MW-21	JS-MW-22	JS-MW-22	JS-MW-23	JS-MW-23	JS-MW-24	JS-MW-24 (DUP-01)	JS-MW-25
									Date Collected	12/2/2021	12/3/2021	12/3/2021	12/2/2021	12/2/2021	12/2/2021	12/1/2021	12/1/2021	12/1/2021	12/1/2021	12/1/2021
									Start Depth (ft. bgs)	17	13.7	16	13	6	14.25	10	15	10	10	9
									End Depth (ft. bgs)	18	14.7	17	14	7	15.2	11	16	11	11	10
MISC																				
Total solids	%	--	--	--	--	--	--	--		91	90	87	84	91	93	NA	NA	87	83	89
PAHS																				
1-Methylnaphthalene	ug/kg	--	--	--	--	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	8,700	300,000	880,000	**41,000,000**	*130,000,000*	200,000	3,600,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	--	5,900	17,000	**1,600,000**	*5,200,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	--	41,000	41,000	**230,000,000**	*730,000,000*	13,000,000	220,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	--	--	--	**20,000**	*80,000*	160,000	11,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	--	--	--	**20,000**	*80,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	--	--	--	**2,500,000**	*7,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	--	--	--	**200,000**	*800,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	--	--	--	**2,000,000**	*8,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	5,500	730,000	730,000	**46,000,000**	*130,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	5,300	390,000	890,000	**27,000,000**	*87,000,000*	470,000	8,300,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	**20,000**	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	2,100	56,000	160,000	**1,600,000**	*5,200,000*	1,700	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	--	480,000	480,000	**29,000,000**	*84,000,000*	25,000,000	440,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs																				
1,1,1,2-Tetrachloroethane	ug/kg	--	1,500	6,400	**480,000**	*2,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,1,1-Trichloroethane	ug/kg	1,800	4,000	4,000	**500,000,000**	*1,000,000,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,1,2,2-Tetrachloroethane	ug/kg	1,600	170	700	**53,000**	*240,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,1,2-Trichloroethane	ug/kg	6,600	100	100	**180,000**	*840,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,1-Dichloroethane	ug/kg	15,000	18,000	50,000	**27,000,000**	*87,000,000*	2.6	74		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,1-Dichloroethene	ug/kg	2,600	140	140	**200,000**	*660,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	**--**	--	--	--		< 390 U	< 390 U	< 420 U	< 440 U	< 380 U	< 370 U	< 410 U	< 390 U	< 420 U	< 450 U	< 410 U
1,2,3-Trichloropropane	ug/kg	--	840	2,400	**1,300,000**	*4,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2,3-Trimethylbenzene	ug/kg	--	--	--	**--**	--	270	4,800		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	2,600	< 60 U	< 60 U	< 70 U	< 60 U
1,2,4-Trichlorobenzene	ug/kg	5,900	4,200	4,200	**990,000**	*5,800,000*	--	--		< 390 U	< 390 U	< 420 U	< 440 U	< 380 U	< 370 U	< 410 U	< 390 U	< 420 U	< 450 U	< 410 U
1,2,4-Trimethylbenzene	ug/kg	570	2,100	2,100	**32,000,000**	*100,000,000*	150	2,600		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	1,360	< 60 U	< 60 U	< 70 U	< 60 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	10	10	**4,400**	*20,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	110	20	20	**92**	*430*	0.074	2.1		< 20 UM	< 20 UM	< 30 UM	< 30 UM	< 20 UM	< 20 UM	< 30 UM	< 20 UM	< 30 UM	< 30 UM	< 20 UM
1,2-Dichlorobenzene	ug/kg	280	14,000	14,000	**19,000,000**	*63,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2-Dichloroethane	ug/kg	7,200	100	100	**91,000**	*420,000*	0.82	23		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,2-Dichloropropane	ug/kg	4,600	100	100	**140,000**	*660,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
1,3,5-Trimethylbenzene	ug/kg	1,100	1,800	1,800	**32,000,000**	*100,000,000*	100	1,800		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	590	< 60 U	< 60 U	< 70 U	< 60 U
1,3-Dichlorobenzene	ug/kg	680	170	480	**200,000**	*660,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,4-Dichlorobenzene	ug/kg	360	1,700	1,700	**400,000**	*1,900,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	44,000	260,000	760,000	**120,000,000**	*700,000,000*	31,000	370,000		< 880 U	< 880 U	< 960 U	< 1000 U	< 870 U	< 850 U	< 940 U	< 890 U	< 940 U	< 1000 U	< 920 U
2-Hexanone	ug/kg	--	20,000	58,000	**32,000,000**	*100,000,000*	--	--		< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	2,300	< 100 U	< 100 U	< 100 U	< 100 U
2-Phenylbutane (sec-Butylbenzene)	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	3,800	49,000		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	230	< 60 U	< 60 U	< 70 U	< 60 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	--	--	--	**56,000,000**	--	3,300	150,000		< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U
Acetone	ug/kg	34,000	15,000	42,000	**23,000,000**	*73,000,000*	260,000	3,100,000		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Acrylonitrile	ug/kg	100	100	220	**16,000**	*74,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/kg	4,000	100	100	**180,000**	*840,000*	1.7	47		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	170	< 60 U	< 60 U	< 70 U	< 60 U
Bromobenzene	ug/kg	--	550	1,500	**540,000**	*1,700,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromodichloromethane	ug/kg	--	1,600	1,600	**110,000**	*490,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromoform	ug/kg	--	1,600	1,600	**820,000**	*3,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromomethane (Methyl bromide)	ug/kg	700	200	580	**320,000**	*1,000,000*	--	--		< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U	< 300 U	< 200 U	< 300 U	< 300 U	< 200 U
Carbon disulfide	ug/kg	--	16,000	46,000	**7,200,000**	*43,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Carbon tetrachloride	ug/kg	900	100	100	**96,000**	*440,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Chlorobenzene	ug/kg	500	2,000	2,000	**4,300,000**	*14,000,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Chlorobromomethane	ug/kg	--	--	--	**--**	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Chloroethane	ug/kg	22,000	8,600	34,000	**2,600,000**	*12,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Chloroform (Trichloromethane)	ug/kg	7,000	1,600	1,600	**1,200,000**	*5,500,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Chloromethane (Methyl chloride)	ug/kg	--	5,200	22,000	**1,600,000**	*7,400,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
cis-1,2-Dichloroethene	ug/kg	12,000	1,400	1,400	**2,500,000**	*8,000,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	**--**	--	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U

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Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-19	JS-MW-20	JS-MW-20	JS-MW-21	JS-MW-22	JS-MW-22	JS-MW-23	JS-MW-23	JS-MW-24	JS-MW-24 (DUP-01)	JS-MW-25
									Date Collected	12/2/2021	12/3/2021	12/3/2021	12/2/2021	12/2/2021	12/2/2021	12/1/2021	12/1/2021	12/1/2021	12/1/2021	12/1/2021
									Start Depth (ft. bgs)	17	13.7	16	13	6	14.25	10	15	10	10	9
									End Depth (ft. bgs)	18	14.7	17	14	7	15.2	11	16	11	11	10
Cymene (p-Isopropyltoluene)	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromochloromethane	ug/kg	--	1,600	1,600	**110,000**	*500,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromomethane	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Dichlorodifluoromethane (CFC-12)	ug/kg	--	95,000	270,000	**52,000,000**	*170,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U
Ethyl ether	ug/kg	--	200	200	**110,000,000**	*360,000,000*	--	--		< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U	< 300 U	< 200 U	< 300 U	< 300 U	< 200 U
Ethylbenzene	ug/kg	360	1,500	1,500	--	*71,000,000*	12	340		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	2,520	< 60 U	< 60 U	< 70 U	< 60 U
Hexachloroethane	ug/kg	1,800	430	1,200	**230,000**	*730,000*	--	--		< 400 U	< 400 U	< 400 U	< 400 U	< 300 U	< 300 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U
Iodomethane	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Isopropyl benzene	ug/kg	3,200	91,000	260,000	**25,000,000**	*80,000,000*	3.8	110		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	400	< 300 U	< 300 U	< 300 U	< 300 U
m&p-Xylene	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	4,300	< 100 U	< 100 U	< 100 U	< 100 U
Methyl tert butyl ether (MTBE)	ug/kg	140,000	800	800	**1,500,000**	*7,100,000*	74	2,100		< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U	< 300 U	< 200 U	< 300 U	< 300 U	< 200 U
Methylene chloride	ug/kg	30,000	100	100	**1,300,000**	*5,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	1,500	< 300 U	< 300 U	< 300 U	< 300 U
N-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	550	9,800		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	1,000	< 60 U	< 60 U	< 70 U	< 60 U
N-Propylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	1,800	21,000		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	2,410	< 60 U	< 60 U	< 70 U	< 60 U
o-Xylene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	930	< 60 U	< 60 U	< 70 U	< 60 U
Styrene	ug/kg	2,100	2,700	2,700	**400,000**	*1,900,000*	150	4,300		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
tert-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	0.64	11		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Tetrachloroethene	ug/kg	1,200	100	100	**200,000**	*930,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Tetrahydrofuran	ug/kg	220,000	1,900	5,400	**2,900,000**	*9,500,000*	--	--		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Toluene	ug/kg	5,400	16,000	16,000	**50,000,000**	*160,000,000*	3,700	64,000		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	920	< 60 U	< 60 U	< 70 U	< 60 U
trans-1,2-Dichloroethene	ug/kg	30,000	2,000	2,000	**3,800,000**	*12,000,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
trans-1,4-Dichloro-2-butene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Trichloroethene	ug/kg	4,000	100	100	**110,000**	*660,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Trichlorofluoromethane (CFC-11)	ug/kg	--	52,000	150,000	**79,000,000**	*260,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Vinyl chloride	ug/kg	260	40	40	--	*34,000*	--	--		< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U
Xylene (total)	ug/kg	820	5,600	5,600	**410,000,000**	*1,000,000,000*	280	5,000		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	5,230	< 100 U	< 100 U	< 100 U	< 100 U

Table 1
Soil Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-26	JS-MW-26 (DUP-02)	JS-MW-27	JS-MW-28	JS-MW-28	JS-MW-29	JS-MW-29	JS-MW-29 (DUP-03)	JS-MW-29	JS-MW-29 (DUP-04)	JS-MW-30
									Date Collected	12/3/2021	12/3/2021	12/6/2021	12/3/2021	12/3/2021	12/7/2021	12/7/2021	12/7/2021	12/7/2021	12/7/2021	12/7/2021
									Start Depth (ft. bgs)	16	16	13.5	5.25	17.5	7	9	9	16	16	4.5
									End Depth (ft. bgs)	17	17	14.5	6.25	18.5	8	10	10	17	17	5.5
MISC																				
Total solids	%	--	--	--	--	--	--	--		87	88	93	81	86	90	88	89	88	89	80
PAHS																				
1-Methylnaphthalene	ug/kg	--	--	--	--	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/kg	8,700	300,000	880,000	**41,000,000**	*130,000,000*	200,000	3,600,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/kg	--	5,900	17,000	**1,600,000**	*5,200,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/kg	--	41,000	41,000	**230,000,000**	*730,000,000*	13,000,000	220,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	--	--	--	**20,000**	*80,000*	160,000	11,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	--	--	--	**20,000**	*80,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/kg	--	--	--	**2,500,000**	*7,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/kg	--	--	--	**200,000**	*800,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/kg	--	--	--	**2,000,000**	*8,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/kg	--	--	--	**2,000**	*8,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/kg	5,500	730,000	730,000	**46,000,000**	*130,000,000*	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/kg	5,300	390,000	890,000	**27,000,000**	*87,000,000*	470,000	8,300,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	**20,000**	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/kg	2,100	56,000	160,000	**1,600,000**	*5,200,000*	1,700	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/kg	--	480,000	480,000	**29,000,000**	*84,000,000*	25,000,000	440,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs																				
1,1,1,2-Tetrachloroethane	ug/kg	--	1,500	6,400	**480,000**	*2,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,1,1-Trichloroethane	ug/kg	1,800	4,000	4,000	**500,000,000**	*1,000,000,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,1,2,2-Tetrachloroethane	ug/kg	1,600	170	700	**53,000**	*240,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,1,2-Trichloroethane	ug/kg	6,600	100	100	**180,000**	*840,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,1-Dichloroethane	ug/kg	15,000	18,000	50,000	**27,000,000**	*87,000,000*	2.6	74		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,1-Dichloroethene	ug/kg	2,600	140	140	**200,000**	*660,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,2,3-Trichlorobenzene	ug/kg	--	--	--	**--**	--	--	--		< 420 U	< 400 U	< 360 U	< 480 U	< 420 U	< 400 U	< 390 U	< 420 U	< 450 U	< 400 U	< 480 U
1,2,3-Trichloropropane	ug/kg	--	840	2,400	**1,300,000**	*4,200,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2,3-Trimethylbenzene	ug/kg	--	--	--	**--**	--	270	4,800		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,2,4-Trichlorobenzene	ug/kg	5,900	4,200	4,200	**990,000**	*5,800,000*	--	--		< 420 U	< 400 U	< 360 U	< 480 U	< 420 U	< 400 U	< 390 U	< 420 U	< 450 U	< 400 U	< 480 U
1,2,4-Trimethylbenzene	ug/kg	570	2,100	2,100	**32,000,000**	*100,000,000*	150	2,600		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	10	10	**4,400**	*20,000*	--	--		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	110	20	20	**92**	*430*	0.074	2.1		< 30 UM	< 20 UM	< 20 UM	< 30 UM	< 30 UM	< 20 UM	< 20 UM	< 30 UM	< 30 UM	< 20 UM	< 30 UM
1,2-Dichlorobenzene	ug/kg	280	14,000	14,000	**19,000,000**	*63,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,2-Dichloroethane	ug/kg	7,200	100	100	**91,000**	*420,000*	0.82	23		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,2-Dichloropropane	ug/kg	4,600	100	100	**140,000**	*660,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,3,5-Trimethylbenzene	ug/kg	1,100	1,800	1,800	**32,000,000**	*100,000,000*	100	1,800		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
1,3-Dichlorobenzene	ug/kg	680	170	480	**200,000**	*660,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
1,4-Dichlorobenzene	ug/kg	360	1,700	1,700	**400,000**	*1,900,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	44,000	260,000	760,000	**120,000,000**	*700,000,000*	31,000	370,000		< 960 U	< 910 U	< 820 U	< 1,100 U	< 960 U	< 920 U	< 890 U	< 960 U	< 1,000 U	< 900 U	< 1,100 U
2-Hexanone	ug/kg	--	20,000	58,000	**32,000,000**	*100,000,000*	--	--		< 3,000 U	< 3,000 U	< 3,000 U	< 4,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 4,000 U
2-Methylnaphthalene	ug/kg	4,200	57,000	170,000	**8,100,000**	*26,000,000*	1,700	30,000		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	500	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
2-Phenylbutane (sec-Butylbenzene)	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	3,800	49,000		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	--	--	--	**56,000,000**	--	3,300	150,000		< 3,000 U	< 3,000 U	< 3,000 U	< 4,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 3,000 U	< 4,000 U
Acetone	ug/kg	34,000	15,000	42,000	**23,000,000**	*73,000,000*	260,000	3,100,000		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Acrylonitrile	ug/kg	100	100	220	**16,000**	*74,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Benzene	ug/kg	4,000	100	100	**180,000**	*840,000*	1.7	47		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Bromobenzene	ug/kg	--	550	1,500	**540,000**	*1,700,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromodichloromethane	ug/kg	--	1,600	1,600	**110,000**	*490,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromoform	ug/kg	--	1,600	1,600	**820,000**	*3,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Bromomethane (Methyl bromide)	ug/kg	700	200	580	**320,000**	*1,000,000*	--	--		< 300 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 300 U
Carbon disulfide	ug/kg	--	16,000	46,000	**7,200,000**	*43,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
Carbon tetrachloride	ug/kg	900	100	100	**96,000**	*440,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Chlorobenzene	ug/kg	500	2,000	2,000	**4,300,000**	*14,000,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Chlorobromomethane	ug/kg	--	--	--	**--**	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Chloroethane	ug/kg	22,000	8,600	34,000	**2,600,000**	*12,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
Chloroform (Trichloromethane)	ug/kg	7,000	1,600	1,600	**1,200,000**	*5,500,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Chloromethane (Methyl chloride)	ug/kg	--	5,200	22,000	**1,600,000**	*7,400,000*	--	--		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
cis-1,2-Dichloroethene	ug/kg	12,000	1,400	1,400	**2,500,000**	*8,000,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
cis-1,3-Dichloropropene	ug/kg	--	--	--	**--**	--	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U

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RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface Protection	Residential Drinking Water Protection	Nonresidential Drinking Water Protection	Residential Soil Direct Contact	Nonresidential Soil Direct Contact	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-26	JS-MW-26 (DUP-02)	JS-MW-27	JS-MW-28	JS-MW-28	JS-MW-29	JS-MW-29	JS-MW-29 (DUP-03)	JS-MW-29	JS-MW-29 (DUP-04)	JS-MW-30
									Date Collected	12/3/2021	12/3/2021	12/6/2021	12/3/2021	12/3/2021	12/7/2021	12/7/2021	12/7/2021	12/7/2021	12/7/2021	12/7/2021
									Start Depth (ft. bgs)	16	16	13.5	5.25	17.5	7	9	9	16	16	4.5
									End Depth (ft. bgs)	17	17	14.5	6.25	18.5	8	10	10	17	17	5.5
Cymene (p-Isopropyltoluene)	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromochloromethane	ug/kg	--	1,600	1,600	**110,000**	*500,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Dibromomethane	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
Dichlorodifluoromethane (CFC-12)	ug/kg	--	95,000	270,000	**52,000,000**	*170,000,000*	--	--		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
Ethyl ether	ug/kg	--	200	200	**110,000,000**	*360,000,000*	--	--		< 300 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 300 U
Ethylbenzene	ug/kg	360	1,500	1,500	--	*71,000,000*	12	340		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Hexachloroethane	ug/kg	1,800	430	1,200	**230,000**	*730,000*	--	--		< 400 U	< 400 U	< 300 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U	< 400 U
Iodomethane	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Isopropyl benzene	ug/kg	3,200	91,000	260,000	**25,000,000**	*80,000,000*	3.8	110		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
m&p-Xylene	ug/kg	--	--	--	--	--	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Methyl tert butyl ether (MTBE)	ug/kg	140,000	800	800	**1,500,000**	*7,100,000*	74	2,100		< 300 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 200 U	< 300 U	< 300 U	< 200 U	< 300 U
Methylene chloride	ug/kg	30,000	100	100	**1,300,000**	*5,800,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Naphthalene	ug/kg	730	35,000	100,000	**16,000,000**	*52,000,000*	67	1,900		< 300 U	< 300 U	< 300 U	< 400 U	< 300 U	400	< 300 U	< 300 U	< 300 U	< 300 U	< 400 U
N-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	550	9,800		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	500	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
N-Propylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	1,800	21,000		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	1200	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
o-Xylene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Styrene	ug/kg	2,100	2,700	2,700	**400,000**	*1,900,000*	150	4,300		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
tert-Butylbenzene	ug/kg	--	1,600	4,600	**2,500,000**	*8,000,000*	0.64	11		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Tetrachloroethene	ug/kg	1,200	100	100	**200,000**	*930,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Tetrahydrofuran	ug/kg	220,000	1,900	5,400	**2,900,000**	*9,500,000*	--	--		< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U	< 1,000 U
Toluene	ug/kg	5,400	16,000	16,000	**50,000,000**	*160,000,000*	3,700	64,000		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
trans-1,2-Dichloroethene	ug/kg	30,000	2,000	2,000	**3,800,000**	*12,000,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
trans-1,4-Dichloro-2-butene	ug/kg	--	--	--	--	--	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Trichloroethene	ug/kg	4,000	100	100	**110,000**	*660,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Trichlorofluoromethane (CFC-11)	ug/kg	--	52,000	150,000	**79,000,000**	*260,000,000*	--	--		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Vinyl chloride	ug/kg	260	40	40	--	*34,000*	--	--		< 60 U	< 60 U	< 50 U	< 70 U	< 60 U	< 60 U	< 60 U	< 60 U	< 70 U	< 60 U	< 70 U
Xylene (total)	ug/kg	820	5,600	5,600	**410,000,000**	*1,000,000,000*	280	5,000		< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U

Notes:

1) Criteria listed are from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Clean Up Criteria Requirements Table 1: Soil: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels, December 21, 2020.
2) Criteria listed are from the EGLE Joslyn Site-Specific Criteria Evaluation dated May 3, 2022.
3) Nonresidential SSVIAC was calculated from the Residential EGLE site-specific criteria.
4) Grey shaded values denotes exceedance and/or equal to Michigan Groundwater Surface Water Interface Protection criteria
5) Yellow highlighted values denotes exceedance and/or equal to Michigan Residential Drinking Water Protection criteria
6) Orange highlighted values denotes exceedance and/or equal to Nonresidential Drinking Water Protection criteria
7) Values in bold denotes exceedance and/or equal to Residential Direct Contact criteria
8) Values in italics denotes exceedance and/or equal to Nonresidential Direct Contact criteria
9) Underlined values denotes exceedance and/or equal to Residential Joslyn site-specific volatilization to indoor air criteria
10) Values in red type denotes exceedance and/or equal to Nonresidential Joslyn site-specific volatilization to indoor air criteria <50k - Basement scenario

Abbreviations:

<	Non-detect
ug/kg	Micrograms per kilogram
ft.	feet
bgs	below ground surface
E	Concentration exceeds calibration range
M	Result reported to MDL not RDL
U	Compound was analyzed for but not detected. The associated value is the compound quantitation limit.
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
BASE	Basement scenario
NA	Not Analyzed
NR	Nonresidential
RES	Residential
SOG	Slab-On-Grade scenario
SSVIAC	Site-specific volatilization to indoor air criteria
<50k	Less than 50,000 square feet

Table 2
Groundwater Elevation Summary
Joslyn South Parcel Investigation
RACER Trust Pontiac North Campus

Well ID	Ground Elevation	Well Elevation [1]	Total Depth (ft)	Date	Depth to Water (ft)[2]	Groundwater Elevation
Joslyn-Wesbrook South Parcel Temporary Monitoring Wells						
JS-MW-03	987.34	987.11	13.83	12/28/2021	5.19	981.92
JS-MW-04	987.69	987.49	13.66	12/28/2021	5.21	982.28
JS-MW-05	986.29	985.94	9.98	12/28/2021	2.55	983.39
JS-MW-06	984.97	984.71	13.92	12/28/2021	6.56	978.15
JS-MW-07	985.74	985.42	14.63	12/28/2021	3.23	982.19
JS-MW-09	986.99	986.61	13.01	12/28/2021	6.37	980.24
JS-MW-10	986.96	986.72	15.78	12/28/2021	7.54	979.18
JS-MW-11	985.69	985.40	13.80	12/28/2021	5.15	980.25
JS-MW-16	985.75	985.34	15.83	12/28/2021	6.23	979.11
JS-MW-19	984.48	984.05	16.66	12/28/2021	5.11	978.94
JS-MW-20	986.07	985.64	17.82	12/28/2021	6.58	979.06
JS-MW-21	984.13	983.59	16.85	12/28/2021	5.70	977.89
JS-MW-22	983.52	983.14	17.71	12/28/2021	5.32	977.82
JS-MW-23	984.63	984.30	10.30	12/28/2021	1.14	983.16
JS-MW-24	983.70	983.32	7.23	12/28/2021	0.60	982.72
JS-MW-25	983.51	983.11	7.31	12/28/2021	1.97	981.14
JS-MW-26	984.64	984.22	18.02	12/28/2021	4.92	979.30
JS-MW-27	987.90	987.55	15.78	12/28/2021	9.88	977.67
JS-MW-28	985.72	985.26	9.68	12/28/2021	2.37	982.89
JS-MW-29	985.28	984.93	10.18	12/28/2021	1.22	983.71
JS-MW-30	984.54	984.07	8.18	12/28/2021	1.21	982.86

Abbreviations:
ft - feet

Footnotes:
[1] Top of Temporary Well Casing/Stickup Elevation is in feet National Vertical Geodetic Datum (1988).
[2] Depth to water measurements collected from top of temporary well casing/stickup.

Table 3
Groundwater Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

ARCADIS

Chemical Name	Units	Groundwater Surface Water Interface	Residential Drinking Water	Nonresidential Drinking Water	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-SB-01	JS-SB-02	JS-MW-03	JS-MW-03	JS-MW-04	JS-MW-04	JS-MW-04 (Dup-01)	JS-MW-05	JS-MW-05 (Dup-04)	JS-MW-05	JS-MW-06	JS-MW-06	JS-MW-07
							Date Collected	5/11/2021	5/11/2021	5/11/2021	12/28/2021	5/11/2021	12/28/2021	12/28/2021	5/12/2021	5/12/2021	12/28/2021	5/11/2021	12/29/2021	5/11/2021
PAHS																				
1-Methylnaphthalene	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	46	46	NA	< 5 U	NA	< 5 U
2-Methylnaphthalene	ug/L	19	260	750	**66**	*110*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	**89**	**82**	NA	6	NA	< 5 U
Acenaphthene	ug/L	38	1,300	3,800	**3,900**	*3,900*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	< 5 U	< 5 U	NA	< 5 U	NA	< 5 U
Acenaphthylene	ug/L	--	52	150	**65**	*710*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	< 5 U	< 5 U	NA	< 5 U	NA	< 5 U
Anthracene	ug/L	--	43	43	**43**	*43*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	< 5 U	< 5 U	NA	< 5 U	NA	< 5 U
Benzo(a)anthracene	ug/L	--	2.1	8.5	**9.4**	*9.4*		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Benzo(a)pyrene	ug/L	--	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Benzo(b)fluoranthene	ug/L	--	1.5	1.5	**--**	--		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Benzo(g,h,i)perylene	ug/L	--	1.0	1.0	**--**	--		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Benzo(k)fluoranthene	ug/L	--	1.0	1.0	**--**	--		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Chrysene	ug/L	--	1.6	1.6	**--**	--		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Dibenz(a,h)anthracene	ug/L	--	2.0	2.0	**--**	--		< 2 U	< 2 U	< 2 U	NA	< 2 U	NA	NA	< 2 U	< 2 U	NA	< 2 U	NA	< 2 U
Fluoranthene	ug/L	1.6	210	210	**--**	--		< 1 U	< 1 U	< 1 U	NA	< 1 U	NA	NA	< 1 U	< 1 U	NA	< 1 U	NA	< 1 U
Fluorene	ug/L	12	880	2,000	**1,700**	*1,700*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	< 5 U	< 5 U	NA	< 5 U	NA	< 5 U
Indeno(1,2,3-cd)pyrene	ug/L	--	2.0	2.0	**--**	--		< 2 U	< 2 U	< 2 U	NA	< 2 U	NA	NA	< 2 U	< 2 U	NA	< 2 U	NA	< 2 U
Naphthalene	ug/L	11	520	1,500	**4.2**	*12*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	***193***	***207 E***	NA	***20***	NA	< 5 U
Phenanthrene	ug/L	2.0	52	150	**9.5**	*0.68*		< 2 U	< 2 U	< 2 U	NA	< 2 U	NA	NA	< 2 U	< 2 U	NA	< 2 U	NA	< 2 U
Pyrene	ug/L	--	140	140	**140**	*140*		< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	< 5 U	< 5 U	NA	< 5 U	NA	< 5 U
VOCs																				
1,1,1,2-Tetrachloroethane	ug/L	--	77	320	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,1,1-Trichloroethane	ug/L	89	200	200	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2,2-Tetrachloroethane	ug/L	78	9	35.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,1,2-Trichloroethane	ug/L	330	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethane	ug/L	740	880	2,500	**4.7**	*40*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	ug/L	130	7.0	7.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-Trichlorobenzene	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 US	< 5 U
1,2,3-Trichloropropane	ug/L	--	42	120	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,2,3-Trimethylbenzene	ug/L	--	--	--	**43**	*150*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	***370 E***	***300 Y***	< 1 U	**72**	30 S	< 1 U
1,2,4-Trichlorobenzene	ug/L	99	70	70	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 US	< 5 U
1,2,4-Trimethylbenzene	ug/L	17	63	63	**25**	*120*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	***1,021 E***	***800 Y***	10	***453 E***	***513 SE***	< 1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	--	0.2	0.2	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 US	< 5 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5.7	0.05	0.05	**0.13**	*0.39*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,2-Dichlorobenzene	ug/L	13	600	600	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,2-Dichloroethane	ug/L	360	5.0	5.0	**1.4**	*5.1*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloropropane	ug/L	230	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,3,5-Trimethylbenzene	ug/L	45	72	72	**18**	*110*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	***340 E***	***260 Y***	4	9	< 114 USX	< 1 U
1,3-Dichlorobenzene	ug/L	28	7	19.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
1,4-Dichlorobenzene	ug/L	17	75	75	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	2,200	13,000	38,000	**2,600**	*12,000*		< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	57	< 1,300 UY	< 25 U	< 25 U	< 25 U	< 25 U
2-Hexanone	ug/L	--	1,000	2,900	**--**	--		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 2,500 UY	< 50 U	< 50 U	< 50 U	< 50 U
2-Methylnaphthalene	ug/L	19	260	750	**66**	*110*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	***199***	< 300 UY	< 5 U	13	6 S	< 5 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	--	80	230	**270**	*400*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	6	< 50 UY	< 1 U	4	2 S	< 1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	--	1,800	5,200	**200**	*5,000*		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 2,500 UY	< 50 U	< 50 U	< 50 US	< 50 U
Acetone	ug/L	1,700	730	2,100	**50,000**	*200,000*		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	292 E	< 2,500 UY	< 50 U	< 50 U	< 50 U	< 50 U
Acrylonitrile	ug/L	2.0	3	11.0	**--**	--		< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 100 UY	< 2 U	< 2 U	< 2 U	< 2 U
Benzene	ug/L	200	5.0	5.0	**1.0**	*8.4*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	***1,220 E***	***1,280 Y***	**8**	***18***	***19***	< 1 U
Bromobenzene	ug/L	--	18	50	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
Bromodichloromethane	ug/L	--	80	80	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Bromoform	ug/L	--	80	80	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
Bromomethane (Methyl bromide)	ug/L	5.0	10	29	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Carbon disulfide	ug/L	--	800	2,300	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Carbon tetrachloride	ug/L	38	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobenzene	ug/L	25	100	100	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
Chlorobromomethane	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L	1,100	430	1,700	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform (Trichloromethane)	ug/L	350	80	80	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Chloromethane (Methyl chloride)	ug/L	--	260	1,100	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/L	620	70	70	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,3-Dichloropropene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Cymene (p-Isopropyltoluene)	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	14	< 300 UY	< 5 U	< 5 U	< 5 US	< 5 U
Dibromochloromethane	ug/L	--	80	80	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 US	< 5 U
Dibromomethane	ug/L	--	80	230	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/L	--	1,700	4,800	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Ethyl ether	ug/L	--	10	10	**--**	--		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 500 UY	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	ug/L	18	74	74	**2.8**	*28*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	***894 E***	***1,040 Y***	**6**	***446 E***	***488 SE***	< 1 U
Hexachloroethane	ug/L	6.7	7	21.0	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 US	< 5 U

Table 3
Groundwater Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

ARCADIS

Chemical Name	Units	Groundwater Surface Water Interface	Residential Drinking Water	Nonresidential Drinking Water	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-SB-01	JS-SB-02	JS-MW-03	JS-MW-03	JS-MW-04	JS-MW-04	JS-MW-04 (Dup-01)	JS-MW-05	JS-MW-05 (Dup-04)	JS-MW-05	JS-MW-06	JS-MW-06	JS-MW-07
							Date Collected	5/11/2021	5/11/2021	5/11/2021	12/28/2021	5/11/2021	12/28/2021	12/28/2021	5/12/2021	5/12/2021	12/28/2021	5/11/2021	12/29/2021	5/11/2021
Iodomethane	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Isopropyl benzene	ug/L	28	800	2,300	**0.60**	*6.7*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	***36***	< 300 UY	< 5 U	***24***	***26 S***	< 5 U
m&p-Xylene	ug/L	--	--	--	**--**	--		< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	2736 E	3700 Y	9	671 E	745 SE	< 2 U
Methyl tert butyl ether (MTBE)	ug/L	7,100	40	40	**250**	*810*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Methylene chloride	ug/L	1,500	5.0	5.0	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 300 UY	< 5 U	< 5 U	< 5 U	< 5 U
Naphthalene	ug/L	11	520	1,500	**4.2**	*12*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	***528 E***	***500 Y***	< 5 U	***58***	***83***	< 5 U
N-Butylbenzene	ug/L	--	80	230	**44**	*360*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**125**	< 50 UY	< 2 UX	8	< 22 USX	< 1 U
N-Propylbenzene	ug/L	--	80	230	**43**	*970*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**137**	**110 Y**	1	**82**	**84 S**	< 1 U
o-Xylene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	103	90 Y	< 1 U	4	7 S	< 1 U
Styrene	ug/L	80	100	100	**33**	*170*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
tert-Butylbenzene	ug/L	--	80	230	**0.077**	*0.71*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
Tetrachloroethene	ug/L	60	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Tetrahydrofuran	ug/L	11,000	95	270	**--**	--		< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 4,500 UY	< 90 U	< 90 U	< 90 U	< 90 U
Toluene	ug/L	270	790	790	**300**	*6,600*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	170	190 Y	< 1 U	6	8	< 1 U
trans-1,2-Dichloroethene	ug/L	1,500	100	100	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,3-Dichloropropene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,4-Dichloro-2-butene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 US	< 1 U
Trichloroethene	ug/L	200	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Trichlorofluoromethane (CFC-11)	ug/L	--	2,600	7,300	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	ug/L	13	2.0	2.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 50 UY	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	49	280	280	**75**	*410*		< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	***3,790 Y***	***2,839 E***	9	***675 E***	***752***	< 2 U

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Chemical Name	Units	Groundwater Surface Water Interface	Residential Drinking Water	Nonresidential Drinking Water	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-07	JS-SB-08	JS-MW-09	JS-MW-09	JS-MW-09 (Dup-02)	JS-MW-10	JS-MW-10 (Dup-03)	JS-MW-10	JS-MW-11	JS-MW-11	JS-MW-16	JS-MW-19	JS-MW-20
							Date Collected	12/29/2021	5/11/2021	5/12/2021	12/29/2021	12/29/2021	5/12/2021	5/12/2021	12/29/2021	5/12/2021	12/30/2021	12/30/2021	12/30/2021	1/4/2022
PAHS																				
1-Methylnaphthalene	ug/L	--	--	--	--	--		NA	< 5 U	19	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	19	260	750	**66**	*110*		NA	< 5 U	42	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
Acenaphthene	ug/L	38	1,300	3,800	**3,900**	*3,900*		NA	< 5 U	< 5 U	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
Acenaphthylene	ug/L	--	52	150	**65**	*710*		NA	< 5 U	< 5 U	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
Anthracene	ug/L	--	43	43	**43**	*43*		NA	< 5 U	< 5 U	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	--	2.1	8.5	**9.4**	*9.4*		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	--	5.0	5.0	**--**	--		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	--	1.5	1.5	**--**	--		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	--	1.0	1.0	**--**	--		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	--	1.0	1.0	**--**	--		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Chrysene	ug/L	--	1.6	1.6	**--**	--		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	--	2.0	2.0	**--**	--		NA	< 2 U	< 2 U	NA	NA	< 2 US	< 2 U	NA	< 2 U	NA	NA	NA	NA
Fluoranthene	ug/L	1.6	210	210	**--**	--		NA	< 1 U	< 1 U	NA	NA	< 1 US	< 1 U	NA	< 1 U	NA	NA	NA	NA
Fluorene	ug/L	12	880	2,000	**1,700**	*1,700*		NA	< 5 U	< 5 U	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	--	2.0	2.0	**--**	--		NA	< 2 U	< 2 U	NA	NA	< 2 US	< 2 U	NA	< 2 U	NA	NA	NA	NA
Naphthalene	ug/L	11	520	1,500	**4.2**	*12*		NA	< 5 U	***143***	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
Phenanthrene	ug/L	2.0	52	150	**9.5**	*0.68*		NA	< 2 U	< 2 U	NA	NA	< 2 US	< 2 U	NA	< 2 U	NA	NA	NA	NA
Pyrene	ug/L	--	140	140	**140**	*140*		NA	< 5 U	< 5 U	NA	NA	< 5 US	< 5 U	NA	< 5 U	NA	NA	NA	NA
VOCs																				
1,1,1,2-Tetrachloroethane	ug/L	--	77	320	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,1-Trichloroethane	ug/L	89	200	200	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2,2-Tetrachloroethane	ug/L	78	9	35.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-Trichloroethane	ug/L	330	5.0	5.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethane	ug/L	740	880	2,500	**4.7**	*40*		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	ug/L	130	7.0	7.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-Trichlorobenzene	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/L	--	42	120	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-Trimethylbenzene	ug/L	--	--	--	**43**	*150*		< 1 U	< 1 U	***460 Y***	***200 E***	***208 E***	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	4	< 1 U
1,2,4-Trichlorobenzene	ug/L	99	70	70	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/L	17	63	63	**25**	*120*		< 1 U	< 1 U	***1,400 Y***	***801 E***	***755 E***	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	2	1	< 1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	--	0.2	0.2	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5.7	0.05	0.05	**0.13**	*0.39*		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichlorobenzene	ug/L	13	600	600	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	ug/L	360	5.0	5.0	**1.4**	*5.1*		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	**4**	**4**	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U
1,2-Dichloropropane	ug/L	230	5.0	5.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3,5-Trimethylbenzene	ug/L	45	72	72	**18**	*110*		< 1 U	< 1 U	***420 Y***	***233 E***	***267 E***	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	1	< 1 U
1,3-Dichlorobenzene	ug/L	28	7	19.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,4-Dichlorobenzene	ug/L	17	75	75	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	2,200	13,000	38,000	**2,600**	*12,000*		< 25 U	< 25 U	< 500 UY	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
2-Hexanone	ug/L	--	1,000	2,900	**--**	--		< 50 U	< 50 U	< 1,000 UY	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
2-Methylnaphthalene	ug/L	19	260	750	**66**	*110*		< 5 U	< 5 U	< 100 UY	30	35	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	--	80	230	**270**	*400*		< 1 U	< 1 U	< 20 UY	4	4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	--	1,800	5,200	**200**	*5,000*		< 50 U	< 50 U	< 1,000 UY	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Acetone	ug/L	1,700	730	2,100	**50,000**	*200,000*		< 50 U	< 50 U	< 1,000 UY	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Acrylonitrile	ug/L	2.0	3	11.0	**--**	--		< 2 U	< 2 U	< 40 UY	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
Benzene	ug/L	200	5.0	5.0	**1.0**	*8.4*		< 1 U	< 1 U	***690 Y***	***438 E***	***435 E***	< 1 U	< 1 U	***16***	< 1 U	< 1 U	< 1 U	***15***	< 1 U
Bromobenzene	ug/L	--	18	50	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromodichloromethane	ug/L	--	80	80	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromoform	ug/L	--	80	80	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromomethane (Methyl bromide)	ug/L	5.0	10	29	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon disulfide	ug/L	--	800	2,300	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon tetrachloride	ug/L	38	5.0	5.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobenzene	ug/L	25	100	100	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobromomethane	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L	1,100	430	1,700	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform (Trichloromethane)	ug/L	350	80	80	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloromethane (Methyl chloride)	ug/L	--	260	1,100	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/L	620	70	70	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,3-Dichloropropene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Cymene (p-Isopropyltoluene)	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane	ug/L	--	80	80	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromomethane	ug/L	--	80	230	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/L	--	1,700	4,800	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Ethyl ether	ug/L	--	10	10	**--**	--		< 10 U	< 10 U	< 200 UY	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	ug/L	18	74	74	**2.8**	*28*		< 1 U	< 1 U	***1,810 Y***	***463 E***	***439 E***	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	***36***	< 1 U
Hexachloroethane	ug/L	6.7	7	21.0	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U

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ARCADIS

Chemical Name	Units	Groundwater Surface Water Interface	Residential Drinking Water	Nonresidential Drinking Water	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-07	JS-SB-08	JS-MW-09	JS-MW-09	JS-MW-09 (Dup-02)	JS-MW-10	JS-MW-10 (Dup-03)	JS-MW-10	JS-MW-11	JS-MW-11	JS-MW-16	JS-MW-19	JS-MW-20
							Date Collected	12/29/2021	5/11/2021	5/12/2021	12/29/2021	12/29/2021	5/12/2021	5/12/2021	12/29/2021	5/12/2021	12/30/2021	12/30/2021	12/30/2021	1/4/2022
Iodomethane	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Isopropyl benzene	ug/L	28	800	2,300	**0.60**	*6.7*		< 5 U	< 5 U	< 100 UY	***26***	***27***	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	***16***	< 5 U
m&p-Xylene	ug/L	--	--	--	**--**	--		< 2 U	< 2 U	6,020 Y	1284 E	1222 E	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	68	< 2 U
Methyl tert butyl ether (MTBE)	ug/L	7,100	40	40	**250**	*810*		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methylene chloride	ug/L	1,500	5.0	5.0	**--**	--		< 5 U	< 5 U	< 100 UY	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Naphthalene	ug/L	11	520	1,500	**4.2**	*12*		< 5 U	< 5 U	***200 Y***	***137***	***146***	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	***24***	< 5 U
N-Butylbenzene	ug/L	--	80	230	**44**	*360*		< 1 U	< 1 U	< 20 UY	< 66 UX	< 69 UX	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
N-Propylbenzene	ug/L	--	80	230	**43**	*970*		< 1 U	< 1 U	**170 Y**	**92**	**95**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	5	36	< 1 U
o-Xylene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	160 Y	58	55	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	7	< 1 U
Styrene	ug/L	80	100	100	**33**	*170*		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
tert-Butylbenzene	ug/L	--	80	230	**0.077**	*0.71*		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene	ug/L	60	5.0	5.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrahydrofuran	ug/L	11,000	95	270	**--**	--		< 90 U	< 90 U	< 1,800 UY	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U
Toluene	ug/L	270	790	790	**300**	*6,600*		< 1 U	< 1 U	190 Y	81	81	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	4	< 1 U
trans-1,2-Dichloroethene	ug/L	1,500	100	100	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,3-Dichloropropene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,4-Dichloro-2-butene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	ug/L	200	5.0	5.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichlorofluoromethane (CFC-11)	ug/L	--	2,600	7,300	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	ug/L	13	2.0	2.0	**--**	--		< 1 U	< 1 U	< 20 UY	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	49	280	280	**75**	*410*		< 2 U	< 2 U	***6,180 Y***	***1,342***	***1,277***	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	**75**	< 2 U

Table 3
Groundwater Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface	Residential Drinking Water	Nonresidential Drinking Water	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-20 (Dup-03)	JS-MW-21	JS-MW-22	JS-MW-23	JS-MW-24	JS-MW-25	JS-MW-26	JS-MW-27	JS-MW-28	JS-MW-29	JS-MW-30
							Date Collected	1/4/2022	1/4/2022	1/4/2022	1/5/2022	1/5/2022	1/5/2022	1/6/2022	1/6/2022	1/5/2022	1/4/2022	1/6/2022
PAHS																		
1-Methylnaphthalene	ug/L	--	--	--	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	19	260	750	**66**	*110*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	38	1,300	3,800	**3,900**	*3,900*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	--	52	150	**65**	*710*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	--	43	43	**43**	*43*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	--	2.1	8.5	**9.4**	*9.4*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	--	5.0	5.0	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	--	1.5	1.5	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	--	1.0	1.0	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	--	1.0	1.0	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	--	1.6	1.6	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	--	2.0	2.0	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	1.6	210	210	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	12	880	2,000	**1,700**	*1,700*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	--	2.0	2.0	**--**	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	11	520	1,500	**4.2**	*12*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	2.0	52	150	**9.5**	*0.68*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	--	140	140	**140**	*140*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs																		
1,1,1,2-Tetrachloroethane	ug/L	--	77	320	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,1-Trichloroethane	ug/L	89	200	200	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2,2-Tetrachloroethane	ug/L	78	9	35.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-Trichloroethane	ug/L	330	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethane	ug/L	740	880	2,500	**4.7**	*40*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	ug/L	130	7.0	7.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-Trichlorobenzene	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichloropropane	ug/L	--	42	120	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2,3-Trimethylbenzene	ug/L	--	--	--	**43**	*150*		< 1 U	< 1 U	< 1 U	7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	3	< 1 U
1,2,4-Trichlorobenzene	ug/L	99	70	70	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,4-Trimethylbenzene	ug/L	17	63	63	**25**	*120*		< 1 U	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	--	0.2	0.2	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5.7	0.05	0.05	**0.13**	*0.39*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichlorobenzene	ug/L	13	600	600	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	ug/L	360	5.0	5.0	**1.4**	*5.1*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**3**	< 1 U	< 1 U	< 1 U
1,2-Dichloropropane	ug/L	230	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,3,5-Trimethylbenzene	ug/L	45	72	72	**18**	*110*		< 1 U	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	3	< 1 U
1,3-Dichlorobenzene	ug/L	28	7	19.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,4-Dichlorobenzene	ug/L	17	75	75	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	2,200	13,000	38,000	**2,600**	*12,000*		< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
2-Hexanone	ug/L	--	1,000	2,900	**--**	--		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
2-Methylnaphthalene	ug/L	19	260	750	**66**	*110*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	--	80	230	**270**	*400*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	--	1,800	5,200	**200**	*5,000*		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Acetone	ug/L	1,700	730	2,100	**50,000**	*200,000*		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Acrylonitrile	ug/L	2.0	3	11.0	**--**	--		< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
Benzene	ug/L	200	5.0	5.0	**1.0**	*8.4*		< 1 U	< 1 U	< 1 U	**2**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromobenzene	ug/L	--	18	50	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromodichloromethane	ug/L	--	80	80	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromoform	ug/L	--	80	80	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromomethane (Methyl bromide)	ug/L	5.0	10	29	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon disulfide	ug/L	--	800	2,300	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon tetrachloride	ug/L	38	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobenzene	ug/L	25	100	100	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobromomethane	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L	1,100	430	1,700	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform (Trichloromethane)	ug/L	350	80	80	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloromethane (Methyl chloride)	ug/L	--	260	1,100	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	ug/L	620	70	70	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,3-Dichloropropene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Cymene (p-Isopropyltoluene)	ug/L	--	--	--	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane	ug/L	--	80	80	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromomethane	ug/L	--	80	230	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane (CFC-12)	ug/L	--	1,700	4,800	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Ethyl ether	ug/L	--	10	10	**--**	--		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Ethylbenzene	ug/L	18	74	74	**2.8**	*28*		< 1 U	< 1 U	< 1 U	**9**	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**4**	< 1 U
Hexachloroethane	ug/L	6.7	7	21.0	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U

Table 3
Groundwater Analytical Results
Joslyn-Wesbrook South Parcel Investigation
RACER Trust Pontiac North Campus

Chemical Name	Units	Groundwater Surface Water Interface	Residential Drinking Water	Nonresidential Drinking Water	Res Joslyn SSVIAC BASE	NR Joslyn SSVIAC <50k SOG	Location ID	JS-MW-20 (Dup-03)	JS-MW-21	JS-MW-22	JS-MW-23	JS-MW-24	JS-MW-25	JS-MW-26	JS-MW-27	JS-MW-28	JS-MW-29	JS-MW-30
							Date Collected	1/4/2022	1/4/2022	1/4/2022	1/5/2022	1/5/2022	1/5/2022	1/6/2022	1/6/2022	1/5/2022	1/4/2022	1/6/2022
Iodomethane	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Isopropyl benzene	ug/L	28	800	2,300	**0.60**	*6.7*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
m&p-Xylene	ug/L	--	--	--	**--**	--		< 2 U	< 2 U	< 2 U	12	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
Methyl tert butyl ether (MTBE)	ug/L	7,100	40	40	**250**	*810*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methylene chloride	ug/L	1,500	5.0	5.0	**--**	--		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Naphthalene	ug/L	11	520	1,500	**4.2**	*12*		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
N-Butylbenzene	ug/L	--	80	230	**44**	*360*		< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
N-Propylbenzene	ug/L	--	80	230	**43**	*970*		< 1 U	< 1 U	< 1 U	4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	5	< 1 U
o-Xylene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	3	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	1	< 1 U
Styrene	ug/L	80	100	100	**33**	*170*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
tert-Butylbenzene	ug/L	--	80	230	**0.077**	*0.71*		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene	ug/L	60	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrahydrofuran	ug/L	11,000	95	270	**--**	--		< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U	< 90 U
Toluene	ug/L	270	790	790	**300**	*6,600*		< 1 U	< 1 U	< 1 U	2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	ug/L	1,500	100	100	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,3-Dichloropropene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,4-Dichloro-2-butene	ug/L	--	--	--	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene	ug/L	200	5.0	5.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichlorofluoromethane (CFC-11)	ug/L	--	2,600	7,300	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	ug/L	13	2.0	2.0	**--**	--		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	49	280	280	**75**	*410*		< 2 U	< 2 U	< 2 U	15	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	1	< 2 U

Notes:

1) Criteria listed are from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Clean Up Criteria Requirements Table 1: Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels, December 21, 2020.
2) Criteria listed are from the EGLE Joslyn Site-Specific Criteria Evaluation dated May 3, 2022.
3) Nonresidential SSVIAC was calculated from the Residential EGLE site-specific criteria.
4) Grey shaded values denotes exceedance and/or equal to Michigan Groundwater Surface Water Interface criteria
5) Yellow highlighted values denotes exceedance and/or equal to Michigan Residential Drinking Water criteria
6) Orange highlighted values denotes exceedance and/or equal to Nonresidential Drinking Water criteria
7) Values in bold denotes exceedance and/or equal to Residential Joslyn site-specific volatilization to indoor air criteria
8) Italicized values denotes exceedance and/or equal to Nonresidential Joslyn site-specific volatilization to indoor air criteria <50k - Basement scenario

Abbreviations:

<	Non-detect
ug/L	Micrograms per liter
bgs	below ground surface
<	Not detected above the laboratory reporting limit
E	Concentration exceeds calibration range
M	Result reported to MDL not RDL
S	Surrogate recovery outside of control limits
U	Compound was analyzed for but not detected. The associated value is the compound quantitation limit.
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
BASE	Basement scenario
NA	Not Analyzed
NR	Nonresidential
RES	Residential
SOG	Slab-On-Grade scenario
SSVIAC	Site-specific volatilization to indoor air criteria
<50k	Less than 50,000 square feet

Figures

Service Layer Credits: Google Earth Pro Aerial Dated March 19, 2021

Wesbrook St

Joslyn Ave

Lenox Ave

JS-MW-07
JS-MW-03
JS-SB-17
JS-SB-13
JS-SB-15
JS-MW-16
JS-MW-09
JS-SB-14
JS-SB-18
JS-MW-27
JS-SB-12
JS-MW-19
JS-MW-10
JS-MW-06
JS-MW-04
JS-MW-05
JS-MW-11
JS-MW-22
JS-MW-20
JS-MW-29
JS-MW-21
JS-MW-23
JS-MW-24
JS-MW-28
JS-MW-26
JS-MW-30
JS-MW-25

LEGEND

- MONITORING WELL
- SOIL BORING
- MANHOLE
- CATCH BASIN
- WATER
- GAS
- TELECOMMUNICATIONS
- STORM SEWER
- SANITARY SEWER
- POTENTIAL FORMER TANK CAVITY IDENTIFIED BY DIFFERENT GPR RESPONSES
- PROPERTY BOUNDARY

0 30 60

SCALE IN FEET

RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

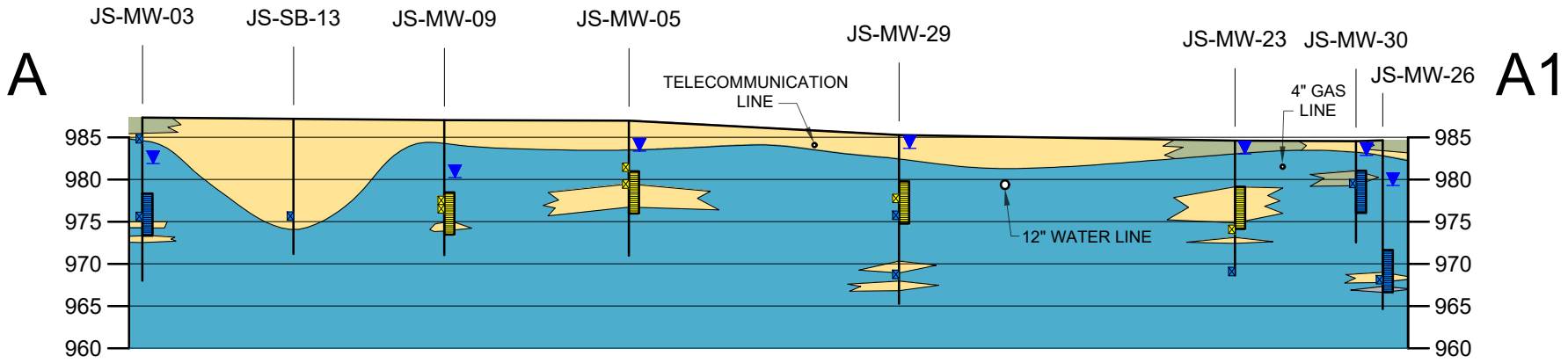
JOSLYN-WESBROOK SOUTH PARCEL

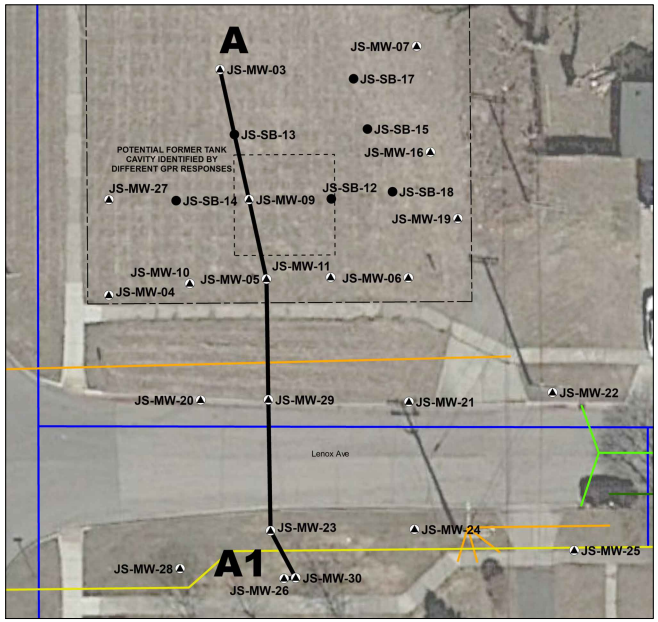
ARCADIS

FIGURE
1

CITY: NOVI, MI DIV: ENV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
D:\GIS\Project Files\MotorsLiquidationCompany\PontiacNorthCampus\Documents\JoslynProperty\LenoxProperty_SiteLayout_South_2021_TankCavity.mxd PLOTTED: 6/8/2022 8:10:25 PM BY: TYarbrough

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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LEGEND

- SCREEN INTERVAL
- WATER LEVEL MEASURED IN MONITORING WELLS ON DECEMBER 28, 2021
- SAND
- SANDY CLAY
- CLAY
- GRAVEL
- SOIL GW — SOIL/GROUNDWATER EXCEEDS RESIDENTIAL SSVIAC
- SOIL GW — SOIL/GROUNDWATER NO EXCEEDANCES OF VOC'S
- WATER LINE
- GAS LINE
- TELECOMMUNICATION LINE
- STORM SEWER
- SANITARY SEWER

NOTE: UTILITY DEPTHS ARE APPROXIMATE

0 20 40

SCALE IN FEET

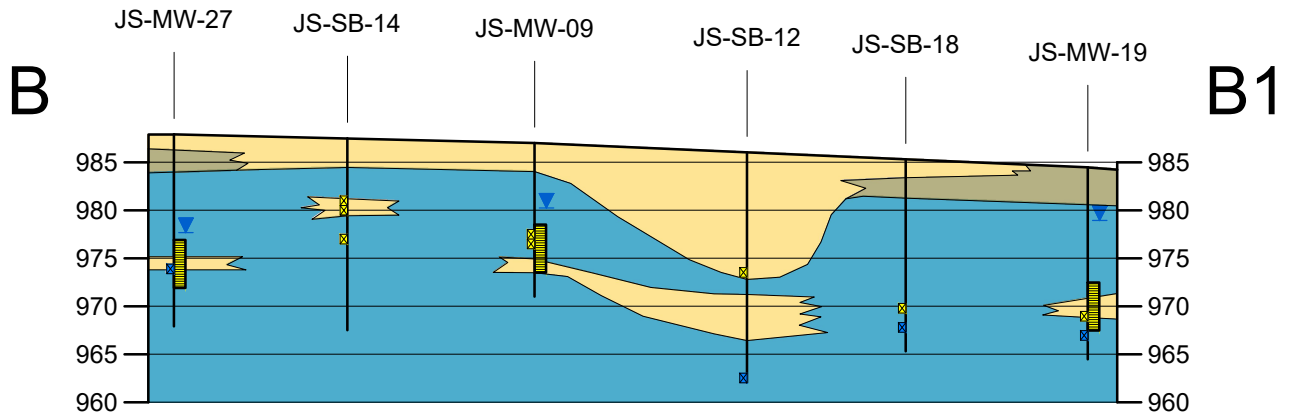
RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

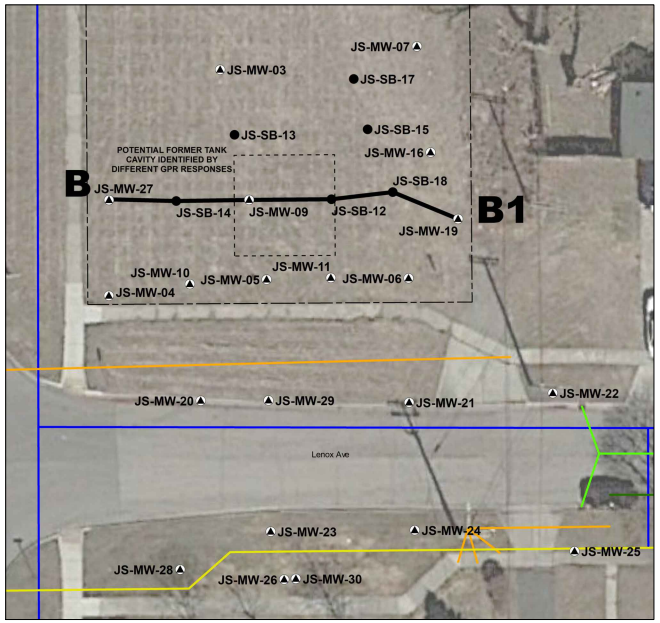
GEOLOGY CROSS SECTION A-A1

ARCADIS

FIGURE 2A

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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LEGEND

- SCREEN INTERVAL
- WATER LEVEL MEASURED IN MONITORING WELLS ON DECEMBER 28, 2021
- SAND
- SANDY CLAY
- CLAY
- GRAVEL
- SOIL GW — SOIL/GROUNDWATER EXCEEDS RESIDENTIAL SSVIAC
- SOIL GW — SOIL/GROUNDWATER NO EXCEEDANCES OF VOC'S
- WATER LINE
- GAS LINE
- TELECOMMUNICATION LINE
- STORM SEWER
- SANITARY SEWER

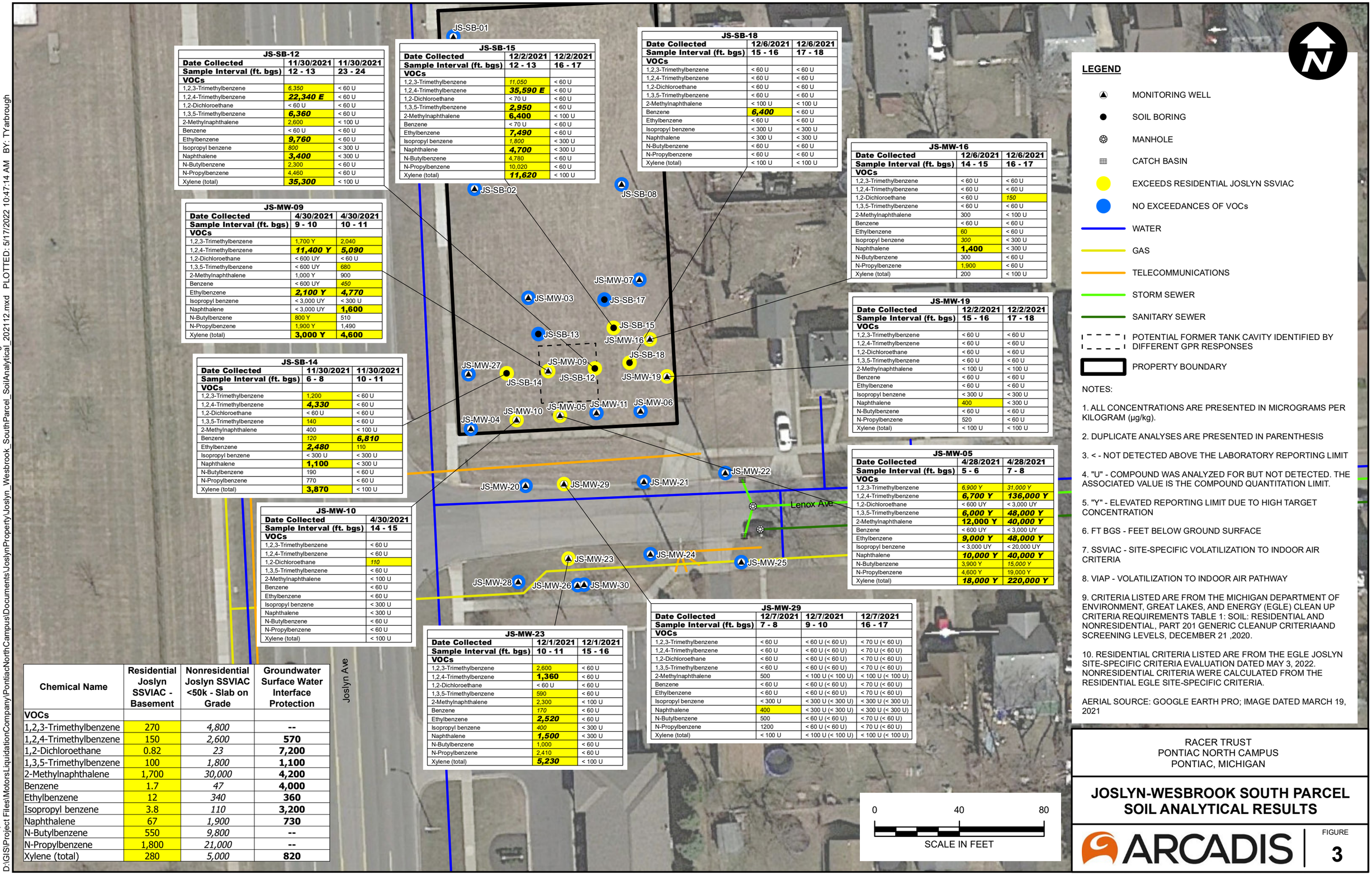
0 20 40
SCALE IN FEET

RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

GEOLOGY CROSS SECTION B-B1

ARCADIS

FIGURE
2B



JS-SB-12		
Date Collected	**11/30/2021**	**11/30/2021**
Sample Interval (ft. bgs)	**12 - 13**	**23 - 24**
VOCs		
1,2,3-Trimethylbenzene	*6,350*	< 60 U
1,2,4-Trimethylbenzene	***22,340 E***	< 60 U
1,2-Dichloroethane	< 60 U	< 60 U
1,3,5-Trimethylbenzene	***6,360***	< 60 U
2-Methylnaphthalene	2,600	< 100 U
Benzene	< 60 U	< 60 U
Ethylbenzene	***9,760***	< 60 U
Isopropyl benzene	*800*	< 300 U
Naphthalene	***3,400***	< 300 U
N-Butylbenzene	2,300	< 60 U
N-Propylbenzene	4,460	< 60 U
Xylene (total)	***35,300***	< 100 U

JS-SB-15		
Date Collected	**12/2/2021**	**12/2/2021**
Sample Interval (ft. bgs)	**12 - 13**	**16 - 17**
VOCs		
1,2,3-Trimethylbenzene	*11,050*	< 60 U
1,2,4-Trimethylbenzene	***35,590 E***	< 60 U
1,2-Dichloroethane	< 70 U	< 60 U
1,3,5-Trimethylbenzene	***2,950***	< 60 U
2-Methylnaphthalene	***6,400***	< 100 U
Benzene	< 70 U	< 60 U
Ethylbenzene	***7,490***	< 60 U
Isopropyl benzene	*1,800*	< 300 U
Naphthalene	***4,700***	< 300 U
N-Butylbenzene	4,780	< 60 U
N-Propylbenzene	10,020	< 60 U
Xylene (total)	***11,620***	< 100 U

JS-SB-18		
Date Collected	**12/6/2021**	**12/6/2021**
Sample Interval (ft. bgs)	**15 - 16**	**17 - 18**
VOCs		
1,2,3-Trimethylbenzene	< 60 U	< 60 U
1,2,4-Trimethylbenzene	< 60 U	< 60 U
1,2-Dichloroethane	< 60 U	< 60 U
1,3,5-Trimethylbenzene	< 60 U	< 60 U
2-Methylnaphthalene	< 100 U	< 100 U
Benzene	***6,400***	< 60 U
Ethylbenzene	< 60 U	< 60 U
Isopropyl benzene	< 300 U	< 300 U
Naphthalene	< 300 U	< 300 U
N-Butylbenzene	< 60 U	< 60 U
N-Propylbenzene	< 60 U	< 60 U
Xylene (total)	< 100 U	< 100 U

JS-MW-16		
Date Collected	**12/6/2021**	**12/6/2021**
Sample Interval (ft. bgs)	**14 - 15**	**16 - 17**
VOCs		
1,2,3-Trimethylbenzene	< 60 U	< 60 U
1,2,4-Trimethylbenzene	< 60 U	< 60 U
1,2-Dichloroethane	< 60 U	*150*
1,3,5-Trimethylbenzene	< 60 U	< 60 U
2-Methylnaphthalene	300	< 100 U
Benzene	< 60 U	< 60 U
Ethylbenzene	60	< 60 U
Isopropyl benzene	*300*	< 300 U
Naphthalene	**1,400**	< 300 U
N-Butylbenzene	300	< 60 U
N-Propylbenzene	1,900	< 60 U
Xylene (total)	200	< 100 U

JS-MW-09		
Date Collected	**4/30/2021**	**4/30/2021**
Sample Interval (ft. bgs)	**9 - 10**	**10 - 11**
VOCs		
1,2,3-Trimethylbenzene	1,700 Y	2,040
1,2,4-Trimethylbenzene	***11,400 Y***	***5,090***
1,2-Dichloroethane	< 600 UY	< 60 U
1,3,5-Trimethylbenzene	< 600 UY	680
2-Methylnaphthalene	1,000 Y	900
Benzene	< 600 UY	*450*
Ethylbenzene	***2,100 Y***	***4,770***
Isopropyl benzene	< 3,000 UY	< 300 U
Naphthalene	< 3,000 UY	**1,600**
N-Butylbenzene	800 Y	510
N-Propylbenzene	1,900 Y	1,490
Xylene (total)	**3,000 Y**	**4,600**

JS-MW-19		
Date Collected	**12/2/2021**	**12/2/2021**
Sample Interval (ft. bgs)	**15 - 16**	**17 - 18**
VOCs		
1,2,3-Trimethylbenzene	< 60 U	< 60 U
1,2,4-Trimethylbenzene	< 60 U	< 60 U
1,2-Dichloroethane	< 60 U	< 60 U
1,3,5-Trimethylbenzene	< 60 U	< 60 U
2-Methylnaphthalene	< 100 U	< 100 U
Benzene	< 60 U	< 60 U
Ethylbenzene	< 60 U	< 60 U
Isopropyl benzene	< 300 U	< 300 U
Naphthalene	400	< 300 U
N-Butylbenzene	< 60 U	< 60 U
N-Propylbenzene	520	< 60 U
Xylene (total)	< 100 U	< 100 U

JS-SB-14		
Date Collected	**11/30/2021**	**11/30/2021**
Sample Interval (ft. bgs)	**6 - 8**	**10 - 11**
VOCs		
1,2,3-Trimethylbenzene	1,200	< 60 U
1,2,4-Trimethylbenzene	***4,330***	< 60 U
1,2-Dichloroethane	< 60 U	< 60 U
1,3,5-Trimethylbenzene	140	< 60 U
2-Methylnaphthalene	400	< 100 U
Benzene	*120*	***6,810***
Ethylbenzene	***2,480***	110
Isopropyl benzene	< 300 U	< 300 U
Naphthalene	**1,100**	< 300 U
N-Butylbenzene	190	< 60 U
N-Propylbenzene	770	< 60 U
Xylene (total)	**3,870**	< 100 U

JS-MW-05		
Date Collected	**4/28/2021**	**4/28/2021**
Sample Interval (ft. bgs)	**5 - 6**	**7 - 8**
VOCs		
1,2,3-Trimethylbenzene	*6,900 Y*	*31,000 Y*
1,2,4-Trimethylbenzene	***6,700 Y***	***136,000 Y***
1,2-Dichloroethane	< 600 UY	< 3,000 UY
1,3,5-Trimethylbenzene	***6,000 Y***	***48,000 Y***
2-Methylnaphthalene	***12,000 Y***	***40,000 Y***
Benzene	< 600 UY	< 3,000 UY
Ethylbenzene	***9,000 Y***	***48,000 Y***
Isopropyl benzene	< 3,000 UY	< 20,000 UY
Naphthalene	***10,000 Y***	***40,000 Y***
N-Butylbenzene	3,900 Y	*15,000 Y*
N-Propylbenzene	4,600 Y	19,000 Y
Xylene (total)	***18,000 Y***	***220,000 Y***

JS-MW-10	
Date Collected	**4/30/2021**
Sample Interval (ft. bgs)	**14 - 15**
VOCs	
1,2,3-Trimethylbenzene	< 60 U
1,2,4-Trimethylbenzene	< 60 U
1,2-Dichloroethane	*110*
1,3,5-Trimethylbenzene	< 60 U
2-Methylnaphthalene	< 100 U
Benzene	< 60 U
Ethylbenzene	< 60 U
Isopropyl benzene	< 300 U
Naphthalene	< 300 U
N-Butylbenzene	< 60 U
N-Propylbenzene	< 60 U
Xylene (total)	< 100 U

JS-MW-23		
Date Collected	**12/1/2021**	**12/1/2021**
Sample Interval (ft. bgs)	**10 - 11**	**15 - 16**
VOCs		
1,2,3-Trimethylbenzene	2,600	< 60 U
1,2,4-Trimethylbenzene	**1,360**	< 60 U
1,2-Dichloroethane	< 60 U	< 60 U
1,3,5-Trimethylbenzene	590	< 60 U
2-Methylnaphthalene	2,300	< 100 U
Benzene	*170*	< 60 U
Ethylbenzene	***2,520***	< 60 U
Isopropyl benzene	*400*	< 300 U
Naphthalene	***1,500***	< 300 U
N-Butylbenzene	1,000	< 60 U
N-Propylbenzene	2,410	< 60 U
Xylene (total)	***5,230***	< 100 U

JS-MW-29			
Date Collected	**12/7/2021**	**12/7/2021**	**12/7/2021**
Sample Interval (ft. bgs)	**7 - 8**	**9 - 10**	**16 - 17**
VOCs			
1,2,3-Trimethylbenzene	< 60 U	< 60 U (< 60 U)	< 70 U (< 60 U)
1,2,4-Trimethylbenzene	< 60 U	< 60 U (< 60 U)	< 70 U (< 60 U)
1,2-Dichloroethane	< 60 U	< 60 U (< 60 U)	< 70 U (< 60 U)
1,3,5-Trimethylbenzene	< 60 U	< 60 U (< 60 U)	< 70 U (< 60 U)
2-Methylnaphthalene	500	< 100 U (< 100 U)	< 100 U (< 100 U)
Benzene	< 60 U	< 60 U (< 60 U)	< 70 U (< 60 U)
Ethylbenzene	< 60 U	< 60 U (< 60 U)	< 70 U (< 60 U)
Isopropyl benzene	< 300 U	< 300 U (< 300 U)	< 300 U (< 300 U)
Naphthalene	400	< 300 U (< 300 U)	< 300 U (< 300 U)
N-Butylbenzene	500	< 60 U (< 60 U)	< 70 U (< 60 U)
N-Propylbenzene	1200	< 60 U (< 60 U)	< 70 U (< 60 U)
Xylene (total)	< 100 U	< 100 U (< 100 U)	< 100 U (< 100 U)

Chemical Name	Residential Joslyn SSVIAC - Basement	Nonresidential Joslyn SSVIAC <50k - Slab on Grade	Groundwater Surface Water Interface Protection
VOCs			
1,2,3-Trimethylbenzene	270	*4,800*	**--**
1,2,4-Trimethylbenzene	150	*2,600*	**570**
1,2-Dichloroethane	0.82	*23*	**7,200**
1,3,5-Trimethylbenzene	100	*1,800*	**1,100**
2-Methylnaphthalene	1,700	*30,000*	**4,200**
Benzene	1.7	*47*	**4,000**
Ethylbenzene	12	*340*	**360**
Isopropyl benzene	3.8	*110*	**3,200**
Naphthalene	67	*1,900*	**730**
N-Butylbenzene	550	*9,800*	**--**
N-Propylbenzene	1,800	*21,000*	**--**
Xylene (total)	280	*5,000*	**820**

LEGEND

- MONITORING WELL
- SOIL BORING
- MANHOLE
- CATCH BASIN
- EXCEEDS RESIDENTIAL JOSLYN SSVIAC
- NO EXCEEDANCES OF VOCs
- WATER
- GAS
- TELECOMMUNICATIONS
- STORM SEWER
- SANITARY SEWER
- POTENTIAL FORMER TANK CAVITY IDENTIFIED BY DIFFERENT GPR RESPONSES
- PROPERTY BOUNDARY

NOTES:

1. ALL CONCENTRATIONS ARE PRESENTED IN MICROGRAMS PER KILOGRAM (µg/kg).

2. DUPLICATE ANALYSES ARE PRESENTED IN PARENTHESIS

3. < - NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT

4. "U" - COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.

5. "Y" - ELEVATED REPORTING LIMIT DUE TO HIGH TARGET CONCENTRATION

6. FT BGS - FEET BELOW GROUND SURFACE

7. SSVIAC - SITE-SPECIFIC VOLATILIZATION TO INDOOR AIR CRITERIA

8. VIAP - VOLATILIZATION TO INDOOR AIR PATHWAY

9. CRITERIA LISTED ARE FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) CLEAN UP CRITERIA REQUIREMENTS TABLE 1: SOIL: RESIDENTIAL AND NONRESIDENTIAL, PART 201 GENERIC CLEANUP CRITERIAAND SCREENING LEVELS, DECEMBER 21 ,2020.

10. RESIDENTIAL CRITERIA LISTED ARE FROM THE EGLE JOSLYN SITE-SPECIFIC CRITERIA EVALUATION DATED MAY 3, 2022. NONRESIDENTIAL CRITERIA WERE CALCULATED FROM THE RESIDENTIAL EGLE SITE-SPECIFIC CRITERIA.

AERIAL SOURCE: GOOGLE EARTH PRO; IMAGE DATED MARCH 19, 2021

0 40 80

SCALE IN FEET

RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

JOSLYN-WESBROOK SOUTH PARCEL SOIL ANALYTICAL RESULTS

ARCADIS

FIGURE 3

CITY: NOVI, MI DIV: ENV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
D:\GIS\Project Files\MotorsLiquidationCompany\PontiacNorthCampus\Documents\JoslynProperty\Joslyn_Wesbrook_SouthParcel_SoilAnalytical_202112.mxd PLOTTED: 5/17/2022 10:47:14 AM BY: TYarbrough

Service Layer Credits: Google Earth Pro Aerial Dated March 19, 2021

JS-MW-07
982.19

JS-MW-03
981.92

982

JS-MW-16
979.11

981

JS-MW-27
977.67

JS-MW-09
980.24

JS-MW-19
978.94

980

JS-MW-10
979.18*

JS-MW-06
978.15

JS-MW-04
982.28*

JS-MW-05
983.39*

JS-MW-11
980.25

979

978

JS-MW-20
979.06*

JS-MW-29
983.71*

JS-MW-21
977.89

JS-MW-22
977.82

Lenox Ave

978

JS-MW-23
983.16*

JS-MW-24
982.72*

979

JS-MW-25
981.14*

JS-MW-28
982.89*

JS-MW-26
979.30

JS-MW-30
982.86*

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR
- INFERRED GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- * ELEVATION NOT USED FOR CONTOURING
- POTENTIAL FORMER TANK CAVITY IDENTIFIED BY DIFFERENT GPR RESPONSES
- PROPERTY BOUNDARY

NOTES:

1. GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL.

2. WATER LEVELS COLLECTED ON DECEMBER 28, 2021.

0 20 40

SCALE IN FEET

RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

JOSLYN GROUNDWATER CONTOUR MAP DECEMBER 28, 2021

ARCADIS

FIGURE
4

CITY: NOVI, MI DIV: ENV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
D:\GIS\Project Files\MotorsLiquidationCompany\PontiacNorthCampus\Documents\JoslynProperty\LenoxProperty_SiteLayout_South_2021_TankCavity_GW.mxd PLOTTED: 1/26/2022 12:14:49 PM BY: TYarbrough

JS-MW-09		
SI: 8.5 - 13.5 ft bgs		
Date Collected	**5/12/2021**	**12/29/2021**
VOCs		
1,2,3-Trimethylbenzene	460 Y	200 E (208 E)
1,2,4-Trimethylbenzene	***1,400 Y***	***801 E (755 E)***
1,2-Dichloroethane	< 20 UY	< 1 U (< 1 U)
1,3,5-Trimethylbenzene	***420 Y***	***233 E (267 E)***
2-Methylnaphthalene	< 100 UY	**30 (35)**
Benzene	***690 Y***	***438 E (435 E)***
Ethylbenzene	***1,810 Y***	***463 E (439 E)***
Isopropyl benzene	< 100 UY	*26 (27)*
Naphthalene	***200 Y***	***137 (146)***
N-Butylbenzene	< 20 UY	< 66 UX (< 69 UX)
N-Propylbenzene	170 Y	92 (95)
Total Xylenes	***6,180 Y***	***1,342 (1,277)***

JS-MW-06		
SI: 9 - 14 ft bgs		
Date Collected	**5/11/2021**	**12/29/2021**
VOCs		
1,2,3-Trimethylbenzene	*72*	30 S
1,2,4-Trimethylbenzene	***453 E***	***513 SE***
1,2-Dichloroethane	< 1 U	< 1 U
1,3,5-Trimethylbenzene	9	< 114 USX
2-Methylnaphthalene	13	6 S
Benzene	*18*	*19*
Ethylbenzene	***446 E***	***488 SE***
Isopropyl benzene	*24*	*26 S*
Naphthalene	***58***	***83***
N-Butylbenzene	8	< 22 USX
N-Propylbenzene	82	84 S
Total Xylenes	***675 E***	***752***

JS-MW-19	
SI: 12 - 17 ft bgs	
Date Collected	**12/30/2021**
VOCs	
1,2,3-Trimethylbenzene	4
1,2,4-Trimethylbenzene	1
1,2-Dichloroethane	< 1 U
1,3,5-Trimethylbenzene	1
2-Methylnaphthalene	< 5 U
Benzene	*15*
Ethylbenzene	***36***
Isopropyl benzene	*16*
Naphthalene	***24***
N-Butylbenzene	< 1 U
N-Propylbenzene	36
Total Xylenes	***75***

JS-MW-27	
SI: 11 - 16 ft bgs	
Date Collected	**1/6/2022**
VOCs	
1,2,3-Trimethylbenzene	< 1 U
1,2,4-Trimethylbenzene	< 1 U
1,2-Dichloroethane	3
1,3,5-Trimethylbenzene	< 1 U
2-Methylnaphthalene	< 5 U
Benzene	< 1 U
Ethylbenzene	< 1 U
Isopropyl benzene	< 5 U
Naphthalene	< 5 U
N-Butylbenzene	< 1 U
N-Propylbenzene	< 1 U
Total Xylenes	< 2 U

JS-MW-29	
SI: 5.5 - 10.5 ft bgs	
Date Collected	**1/4/2022**
VOCs	
1,2,3-Trimethylbenzene	3
1,2,4-Trimethylbenzene	< 1 U
1,2-Dichloroethane	< 1 U
1,3,5-Trimethylbenzene	3
2-Methylnaphthalene	< 5 U
Benzene	< 1 U
Ethylbenzene	4
Isopropyl benzene	< 5 U
Naphthalene	< 5 U
N-Butylbenzene	< 1 U
N-Propylbenzene	5
Total Xylenes	1

JS-MW-10		
SI: 10.5 - 15.5 ft bgs		
Date Collected	**5/12/2021**	**12/29/2021**
VOCs		
1,2,3-Trimethylbenzene	< 1 U (< 1 U)	< 1 U
1,2,4-Trimethylbenzene	< 1 U (< 1 U)	< 1 U
1,2-Dichloroethane	4 (4)	< 1 U
1,3,5-Trimethylbenzene	< 1 U (< 1 U)	< 1 U
2-Methylnaphthalene	< 5 U (< 5 U)	< 5 U
Benzene	< 1 U (< 1 U)	*16*
Ethylbenzene	< 1 U (< 1 U)	< 1 U
Isopropyl benzene	< 5 U (< 5 U)	< 5 U
Naphthalene	< 5 U (< 5 U)	< 5 U
N-Butylbenzene	< 1 U (< 1 U)	< 1 U
N-Propylbenzene	< 1 U (< 1 U)	< 1 U
Total Xylenes	< 2 U (< 2 U)	< 2 U

JS-MW-23	
SI: 5.5 - 10.5 ft bgs	
Date Collected	**1/5/2022**
VOCs	
1,2,3-Trimethylbenzene	7
1,2,4-Trimethylbenzene	2
1,2-Dichloroethane	< 1 U
1,3,5-Trimethylbenzene	2
2-Methylnaphthalene	< 5 U
Benzene	2
Ethylbenzene	9
Isopropyl benzene	< 5 U
Naphthalene	< 5 U
N-Butylbenzene	1
N-Propylbenzene	4
Total Xylenes	15

JS-MW-05		
SI: 6 - 11 ft bgs		
Date Collected	**5/12/2021**	**12/28/2021**
VOCs		
1,2,3-Trimethylbenzene	*370 E (300Y)*	< 1 U
1,2,4-Trimethylbenzene	***1,021 E (800 Y)***	10
1,2-Dichloroethane	< 1 U (< 50 UY)	< 1 U
1,3,5-Trimethylbenzene	***340 E (260 Y)***	4
2-Methylnaphthalene	***199 (<300 UY)***	< 5 U
Benzene	***1,220 E (1,280 Y)***	8
Ethylbenzene	***894 E (1,040 Y)***	6
Isopropyl benzene	***36 (< 300 UY)***	< 5 U
Naphthalene	***528 E (500 Y)***	< 5 U
N-Butylbenzene	125 (< 50 UY)	< 2 UX
N-Propylbenzene	137 (110 Y)	1
Total Xylenes	***3,790 Y (2,839 E)***	9

Chemical Name	Residential Joslyn SSVIAC - Basement	Nonresidential Joslyn SSVIAC <50k - Slab on Grade	Groundwater Surface Water Interface
VOCs			
1,2,3-Trimethylbenzene	43	*150*	**--**
1,2,4-Trimethylbenzene	25	*120*	**17**
1,2-Dichloroethane	1.4	*5.1*	**360**
1,3,5-Trimethylbenzene	18	*110*	**45**
2-Methylnaphthalene	66	*110*	**19**
Benzene	1.0	*8.4*	**200**
Ethylbenzene	2.8	*28*	**18**
Isopropyl benzene	0.60	*6.7*	**28**
Naphthalene	4.2	*12*	**11**
N-Butylbenzene	44	*360*	**--**
N-Propylbenzene	43	*970*	**--**
Total Xylenes	75	*410*	**49**

JS-MW-03
JS-MW-04
JS-MW-05
JS-MW-06
JS-MW-07
JS-MW-09
JS-MW-10
JS-MW-11
JS-MW-16
JS-MW-19
JS-MW-20
JS-MW-21
JS-MW-22
JS-MW-23
JS-MW-24
JS-MW-25
JS-MW-26
JS-MW-27
JS-MW-28
JS-MW-29
JS-MW-30

Joslyn Ave

Lenox

0 40 80
SCALE IN FEET

LEGEND

- MONITORING WELL
- MANHOLE
- CATCH BASIN
- EXCEEDS RESIDENTIAL JOSLYN SSVIAC
- NO EXCEEDANCES OF VOC'S
- WATER
- GAS
- TELECOMMUNICATIONS
- STORM SEWER
- SANITARY SEWER
- POTENTIAL FORMER TANK CAVITY IDENTIFIED BY DIFFERENT GPR RESPONSES
- PROPERTY BOUNDARY

NOTES:

1. ALL CONCENTRATIONS ARE PRESENTED IN MICROGRAMS PER LITER (µg/L)
2. DUPLICATE ANALYSES ARE PRESENTED IN PARENTHESIS
3. < - NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
4. DUPLICATE ANALYSES ARE PRESENTED IN BRACKETS
5. "E" – CONCENTRATION EXCEEDS CALIBRATION RANGE
6. "X" - ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE
7. "S" – SURROGATE RECOVERY OUTSIDE OF CONTROL LIMITS
8. "U" – COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
9. "Y" – ELEVATED REPORTING LIMIT DUE TO HIGH TARGET CONCENTRATION
10. FT BGS - FEET BELOW GROUND SURFACE
11. SI - SCREENED INTERVAL
12. SSVIAC - SITE-SPECIFIC VOLATILIZATION TO INDOOR AIR CRITERIA
13. VIAP – VOLATILIZATION TO INDOOR AIR PATHWAY
14. CRITERIA LISTED ARE FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) CLEAN UP CRITERIA REQUIREMENTS TABLE 1: GROUNDWATER: RESIDENTIAL AND NONRESIDENTIAL, PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS, DECEMBER 21, 2020.
15. RESIDENTIAL CRITERIA LISTED ARE FROM THE EGLE JOSLYN SITE-SPECIFIC CRITERIA EVALUATION DATED MAY 3, 2022. NONRESIDENTIAL CRITERIA WERE CALCULATED FROM THE RESIDENTIAL EGLE SITE-SPECIFIC CRITERIA.

AERIAL SOURCE: GOOGLE EARTH PRO; IMAGE DATED MARCH 19, 2021

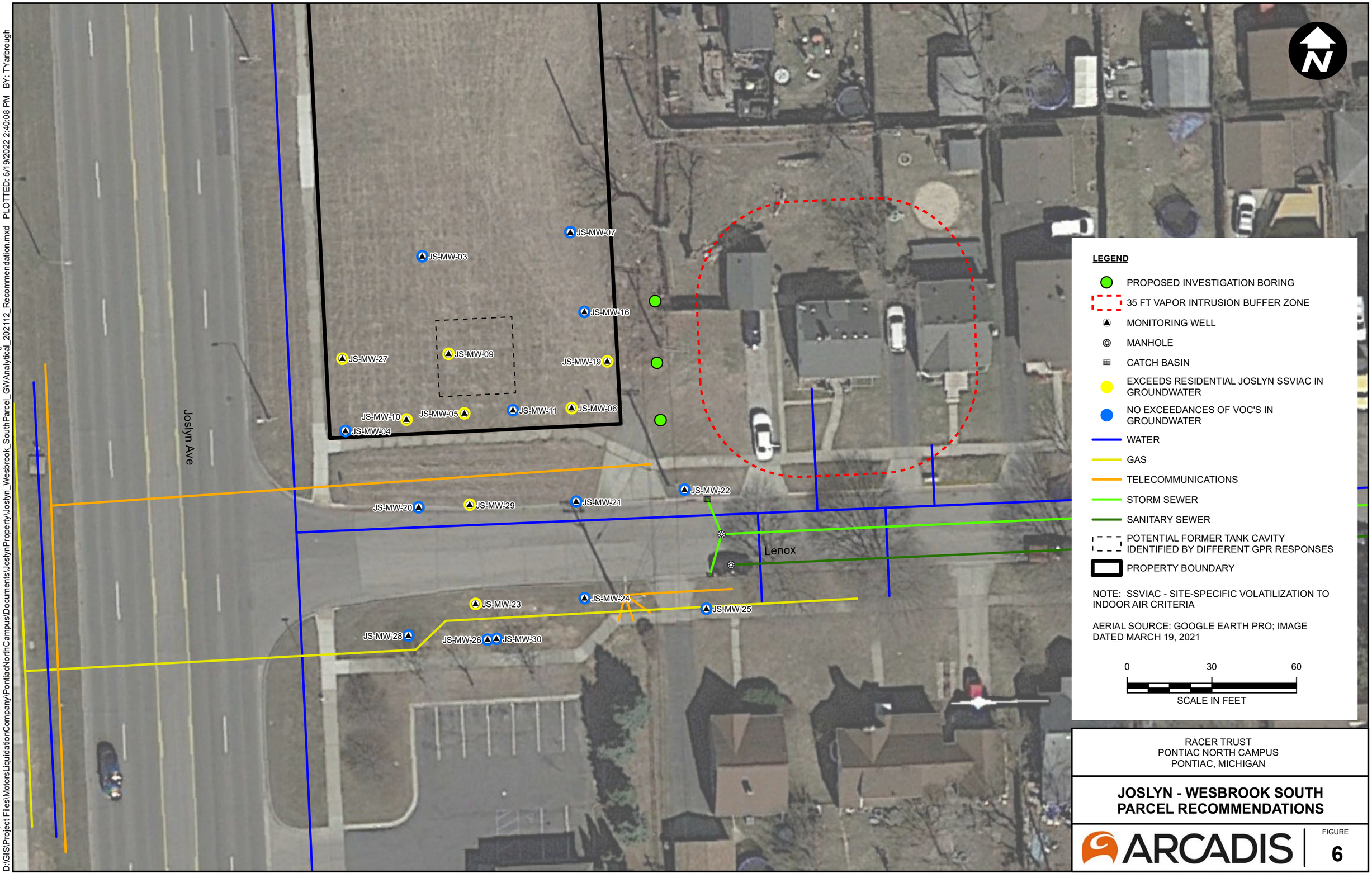
RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

JOSLYN-WESBROOK SOUTH PARCEL GROUNDWATER ANALYTICAL RESULTS

ARCADIS

FIGURE
5

CITY: NOVI, MI DIV: ENV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
D:\GIS\Project Files\MotorsLiquidationCompany\PontiacNorthCampus\Documents\JoslynProperty\Joslyn_Wesbrook_SouthParcel_GWAnalytical_202112.mxd PLOTTED: 6/8/2022 8:06:22 PM BY: TYarbrough



RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

JOSLYN - WESBROOK SOUTH PARCEL RECOMMENDATIONS

ARCADIS

FIGURE
6

CITY: NOVI, MI DIV: ENV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
D:\GIS\Project Files\MotorsLiquidationCompany\PontiacNorthCampus\Documents\JoslynProperty\Joslyn_Wesbrook_SouthParcel_GWAnalytical_202112_Recommendation.mxd PLOTTED: 5/19/2022 2:40:08 PM BY: TYarbrough

Appendix A

Soil Boring and Well Construction Logs

Date Start: 4/29/2021	**Northing:** 13415648.0763	**Well/Boring ID:** **JS-SB-01**
Date Finish: 4/29/2021	**Easting:** 425121.1489	**Client:** RACER
Drilling Company: Terra Probe Environmental	**Casing Elevation:** 989.24	
Driller's Name: J Schaffer	**Borehole Depth (ft. bgs.):** 16.0	**Location:** RACER PNC
Drilling Method: Hand Auger/Direct Push	**Surface Elevation:** 987.7	
Sampling Method: Continuous		
Rig Type: Direct Push	**Descriptions By:** S. Turner	
Water Level Start (ft. bgs.): NA		**Weather Conditions:** 48 F, Cold, Rainy
Water Level Finish (ft. btoc.): 8.53		

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	5.0	0.0 0.0 0.0 0.0 0.0			(0.0-3.5') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 5/3).		Sand Pack (0.0 to 2.0' bgs) 2' PVC Well Casing (0.0 to 8.0' bgs) Bentonite (2.0 to 7.0' bgs)
5 / -5	2	5.0-8.0'	2.2	NA NA NA			(3.5-8.0') CLAY, low plasticity; trace coarse sand to granules, subangular to subrounded; medium stiff; moist; brown (10YR 4/3).		
							(8.0-8.5') CEMENT		Sand Pack (7.0 to 16.0' bgs) 2' PVC 10 Slot Screen (8.0 to 10.0' bgs)
10 / -10	3	8.0-12.0'	3.8	0.0 0.0 0.0 0.0			(8.5-16.0') CLAY, low plasticity; trace granules, subangular to subrounded; medium stiff; moist; dark gray (10YR 4/1). NOTE: SAND, coarse, subangular to subrounded; some granules to small pebbles, subangular to subrounded; poorly sorted; wet; brown (10YR 4/3) from 8.5 to 8.8' bgs.		
15 / -15	4	12.0-16.0'	NA	0.0 0.0 0.0 0.0					
							End of boring at 16.0' bgs.		
20 / -20									
25 / -25									

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Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/27/2021
Date Finish: 4/27/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 12.77

Northing: 13415658.1889
Easting: 425049.3807
Casing Elevation: 989.22
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 987.96
Descriptions By: S. Turner

Well/Boring ID: JS-SB-02
Client: RACER
Location: RACER PNC
Weather Conditions: 80 F, Partly Cloudy

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-8.0'	8	0.0 0.0 0.0 0.0 0.0			(0.0-3.5') SAND, medium to coarse, subangular to subrounded, little granules to small pebbles, subangular to subrounded, poorly sorted; dry to moist; brown (10YR 4/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2			0.0 0.0 0.0			(3.5-12.0') CLAY, medium plasticity; trace granules subangular to subrounded; soft to medium stiff; moist; brown (10YR 5/3).		Bentonite (2.0 to 7.0' bgs) 2' PVC Well Casing (0.0 to 9.0' bgs)
10 / -10	3	8.0-12.0'	3.0	0.0 0.0 0.0 0.0 0.0	X				Sand Pack (7.0 to 16.0' bgs) 2' PVC 10 Slot Screen (9.0 to 14.0' bgs)
15 / -15	4	12.0-16.0'	4.0	0.0 0.0 0.0 0.0 0.0			(12.0-13.5') SAND, medium to coarse, subangular to subrounded; little gramules to small pebbles, subangular to subroiunded; poorly sorted; wet; brown (10YR 5/3). (13.5-16.0') CLAY, medium plasticity, no dilatancy; trace silt; medium stiff; moist; gray (10YR 5/1).		
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

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Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/28/2021
Date Finish: 4/28/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 13.03

Northing: 13415683.6
Easting: 424997.94
Casing Elevation: 987.11
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 987.4
Descriptions By: S. Turner

Well/Boring ID: JS-MW-03
Client: RACER
Location: RACER PNC
Weather Conditions: 60 F, Clear

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0'	5.0	0.0 0.0 0.9 0.0 0.0			(0.0-3.5') SAND, medium to coarse, subagular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	NA	0.0 0.0 0.0			(3.5-12.2') CLAY, medium plasticity; trace medium sand to granules, subangular to subrounded; soft; moist; brown (10YR 5/3).		Bentonite (2.0 to 7.0' bgs) 2' PVC Well Casing (0.0 to 9.0' bgs)
10 / -10	3	8.0-12.0'	NA	0.0 0.0 0.0 0.0					Sand Pack (7.0 to 16.0' bgs) 2' PVC 10 Slot Screen (9.0 to 14.0' bgs)
15 / -15	4	12.0-16.0'	NA	0.0 0.0 0.0 0.0			(12.2-13.7') SAND, medium to coarse, subangular to subrounded; llittle granules to small pebbles, subangular to subrounded; poorly sorted; wet; brown (10YR 5/3). (13.7-16.0') CLAY, medium plasticity, no dilatancy; trace silt; medium stiff; moist; gray (10YR 5/1).		
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

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Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/28/2021
Date Finish: 4/28/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 13.98

Northing: 13415656.43
Easting: 424936.10
Casing Elevation: 989.12
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 987.69
Descriptions By: S. Turner

Well/Boring ID: JS-MW-04
Client: RACER
Location: RACER PNC
Weather Conditions: 50 F, Drizzly

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0'	5.0	0.0, 0.0, 0.0, 0.0, 0.0			(0.0-3.7') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	2.7	0.0, 0.0, 0.0, 0.0, 0.0	X		(3.7-5.6') CLAY, medium plasticity; trace medium sand to granules, subangular to subrounded; medium stiffness; moist; brown (10YR 5/3).		Bentonite (2.0 to 7.0' bgs)
							(5.6-6.9') SAND, fine to medium, subangular to subrounded; little granules, subangular to subrounded; little clay, medium plasticity; poorly sorted; soft; wet; brown (10YR 5/3).		2' PVC Well Casing (0.0 to 9.0' bgs)
10 / -10	3	8.0-12.0'	3.8	0.0, 0.0, 0.0, 0.0, 0.0			(6.9-16.0') CLAY, medium plasticity; trace granules, subangular to subrounded; medium stiffness; moist; brown (10YR 5/3). NOTE: Color change to gray (10YR 5/1) at 9.0' bgs.		Sand Pack (2.5 to 16.0' bgs)
15 / -15	4	12.0-16.0'	4.0	0.0, 0.0, 0.0, 0.0, 0.0					2' PVC 10 Slot Screen (9.0 to 14.0' bgs)
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

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Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/28/2021
Date Finish: 4/28/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 6.29

Northing: 13415698.52
Easting: 424942.29
Casing Elevation: 987.78
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 986.29
Descriptions By: S. Turner

Well/Boring ID: JS-MW-05
Client: RACER
Location: RACER PNC
Weather Conditions: 80 F, Sunny

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	5.0	0.0 0.0 0.0 8.6			(0.0-3.7') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).		Sand Pack (0.0 to 1.0' bgs) Bentonite (1.0 to 4.5' bgs) 2' PVC Well Casing (0.0 to 6.0' bgs)
5 / -5	2	5.0-8.0'	NA	69.9 13.3 14.4	X X		(3.7-8.0') CLAY, medium plasticity, and SAND, fine to medium, subangular to subrounded; medium stiffness; well sorted; moist to wet; very dark gray (10YR 3/1).		Sand Pack (4.5 to 16.0' bgs) 2' PVC 10 Slot Screen (6.0 to 11.0' bgs)
10 / -10	3	8.0-12.0'	NA	229.3 159.6 42.2 14.6			(8.0-10.5') SAND, medium to coarse, subangular to subrounded; trace granules, subangular to subrounded; poorly sorted; wet; black (10YR 2/1). NOTE: Strong odor. (10.5-16.0') CLAY, low plasticity, no dilatancy; trace silt, stiff; moist to dry; dark gray (10YR 4/1).		
15 / -15	4	12.0-16.0'	NA	2.2 1.3 0.9 0.1					
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/28/2021	**Northing:** 13415736.54	**Well/Boring ID:** JS-MW-06
Date Finish: 4/28/2021	**Easting:** 424944.283	**Client:** RACER
Drilling Company: Terra Probe Environmental	**Casing Elevation:** 986.08	
Driller's Name: J Schaffer	**Borehole Depth (ft. bgs.):** 16.0	**Location:** RACER PNC
Drilling Method: Hand Auger/Direct Push	**Surface Elevation:** 984.97	
Sampling Method: Continuous	**Descriptions By:** S. Turner	
Rig Type: Direct Push		**Weather Conditions:** 80 F, Sunny
Water Level Start (ft. bgs.): NA		
Water Level Finish (ft. btoc.): 12.35		

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	6.0	0.0 0.0 0.0 0.0 0.0			(0.0-3.5') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	2.25	0.0 0.0 0.0			(3.5-13.1') CLAY, medium plasticity, no dilatancy; trace silt; trace granules, subangular to subrounded; medium stiffness; moist; brown (10YR 4/3).		Bentonite (2.0 to 7.0' bgs) 2' PVC Well Casing (0.0 to 9.0' bgs)
10 / -10	3	8.0-12.0'	4.0	0.0 0.0 0.0 0.0					Sand Pack (7.0 to 16.0' bgs) 2' PVC 10 Slot Screen (9.0 to 14.0' bgs)
	4	12.0-16.0'	4.0	0.0 0.0 0.0 0.0	X		(13.1-13.6') SAND, medium to coarse, subangular to subrounded; trace granules, subangular to subrounded; trace clay, non plastic; poorly sorted; wet; brown (10YR 4/3). (13.6-16.0') CLAY, low plasticity, no dilatancy; trace silt, stiff; moist to dry; dark gray (10YR 4/1).		
15 / -15							End of boring at 16.0' bgs.		
20 / -20									
25 / -25									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/29/2021
Date Finish: 4/29/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 9.34

Northing: 13415736.05
Easting: 425006.469
Casing Elevation: 988
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 985.74
Descriptions By: S. Turner

Well/Boring ID: JS-MW-07
Client: RACER
Location: RACER PNC
Weather Conditions: 48 F, Rainy

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	5.0	0.0 0.0 0.0 0.0			(0.0-4.2') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	2.4	0.0 0.0 0.0			(4.2-13.4') CLAY, medium plasticity, no dilatancy; trace silt; trace medium sand to granules, subangular to subrounded; medium stiffness; moist; brown (10YR 4/3).		2' PVC Well Casing (0.0 to 9.5' bgs) Bentonite (2.0 to 7.5' bgs)
10 / -10	3	8.0-12.0'	3.0	0.0 0.0 0.0 0.0					Sand Pack (7.0 to 16.0' bgs) 2' PVC 10 Slot Screen (9.5 to 14.5' bgs)
15 / -15	4	12.0-16.0'	3.7	0.0 0.0 0.0 0.0	X		(13.4-13.9') SAND, medium to coarse, subangular to subrounded; little clay, non plastic; trace granules, subangular to subrounded; poorly sorted; wet; brown (10YR 4/3). (13.9-16.0') CLAY, low plasticity, no dilatancy; trace silt, trace granules, subangular to subrounded; stiff; moist to dry; dark gray (10YR 4/1).		
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/29/2021 **Date Finish:** 4/29/2021 **Drilling Company:** Terra Probe Environmental **Driller's Name:** J Schaffer **Drilling Method:** Hand Auger/Direct Push **Sampling Method:** Continuous **Rig Type:** Direct Push **Water Level Start (ft. bgs.):** NA **Water Level Finish (ft. btoc.):** 13.65	**Northing:** 13415727.603 **Easting:** 425051.4331 **Casing Elevation:** 989.25 **Borehole Depth (ft. bgs.):** 16.0 **Surface Elevation:** 986.03 **Descriptions By:** S. Turner	**Well/Boring ID:** **JS-SB-08** **Client:** RACER **Location:** RACER PNC **Weather Conditions:** 48 F, Cloudy

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	5.0	0.0 0.0 0.0 0.0			(0.0-3.8') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 4/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5					X		(3.8-5.7') CLAY, low plasticity, and SAND, fine to medium, subangular to subrounded; trace granules to small pebbles, subangular to subrounded; medium stiffness; moist; brown (10YR 4/3).		Bentonite (2.0 to 7.0' bgs) 2' PVC Well Casing (0.0 to 9.0' bgs)
	2	5.0-8.0'	2.7	0.0 0.0 0.0			(5.7-16.0') CLAY, low plasticity, trace granules, subangular to subrounded; stiff; moist; borwn (10YR 4/3). NOTE: SAND, medium to coarse, subangular to subrounded; poorly sorted; wet; brown (10YR 4/3) from 5.2 to 5.4 and 5.6 to 5.7' bgs.		
10 / -10	3	8.0-12.0'	3.8	0.0 0.0 0.0 0.0					Sand Pack (7.0 to 16.0' bgs) 2' PVC 10 Slot Screen (9.0 to 14.0' bgs)
	4	12.0-16.0'	1.9	0.0 0.0 0.0 0.0					
15 / -15									
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

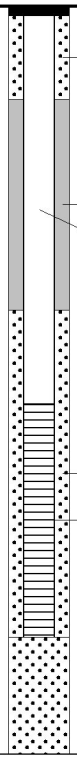
ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/30/2021	**Northing:** 13415692.9	**Well/Boring ID:** **JS-MW-09**
Date Finish: 4/30/2021	**Easting:** 424963.402	**Client:** RACER
Drilling Company: Terra Probe Environmental	**Casing Elevation:** 988.86	
Driller's Name: J Schaffer	**Borehole Depth (ft. bgs.):** 16.0	**Location:** RACER PNC
Drilling Method: Hand Auger/Direct Push	**Surface Elevation:** 986.99	
Sampling Method: Continuous	**Descriptions By:** S. Turner	
Rig Type: Direct Push		**Weather Conditions:** 43 F, Rainy
Water Level Start (ft. bgs.): NA		
Water Level Finish (ft. btoc.): 13.03		

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0'	5.0	0.0 0.0 0.0 0.0			(0.0-3.1') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 5/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	2.2	0.0 0.0 0.0			(3.1-16.0') CLAY, low to medium plasticity, trace granules to small pebbles, subangular to subrounded; medium stiff to stiff; moist; brown (10YR 5/3).		Bentonite (2.0 to 6.5' bgs) 2' PVC Well Casing (0.0 to 8.5' bgs)
10 / -10	3	8.0-12.0'	3.9	0.7 15.6 2.5 8.7	X X				Sand Pack (6.5 to 16.0' bgs) 2' PVC 10 Slot Screen (8.5 to 13.5' bgs)
15 / -15	4	12.0-16.0'	3.5	4.4 7.9 2.5 0.0			NOTE: SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; wet; brown (10YR 5/3) from 12.5 to 12.8' bgs.		
20 / -20							End of boring at 16.0' bgs.		
25 / -25									



ARCADIS Design & Consultancy for natural and built assets

Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/30/2021
Date Finish: 4/30/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 12.27

Northing: 13415678
Easting: 424940.154
Casing Elevation: 987.99
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 986.96
Descriptions By: S. Turner

Well/Boring ID: JS-MW-10
Client: RACER
Location: RACER PNC
Weather Conditions: 45 F, Cloudy

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0.0-5.0'	5.0	0.0 0.0 0.0 0.0			(0.0-3.8') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 5/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	2.2	0.0 0.0 0.0			(3.8-7.5') SAND, fine to coarse, and CLAY, high plasticity, no to slow dilatancy; trace granules to small pebbles, subangular to subrounded; soft; poorly sorted; moist; brown (10YR 4/3).		Bentonite (2.0 to 8.5' bgs) 2' PVC Well Casing (0.0 to 10.5' bgs)
10 / -10	3	8.0-12.0'	4.0	0.0 0.0 0.0 0.0			(7.5-16.0') CLAY, low to medium plasticity; trace granules, subangular to subrounded; medium stiff; gray (10YR 5/1).		
15 / -15	4	12.0-16.0'	3.3	0.0 0.0 0.0 0.0	X		NOTE: SAND, medium , subangular to subrounded; well sorted; wet; brown (10YR 5/3) from 15.1 to 15.2' bgs.		Sand Pack (8.5 to 16.0' bgs) 2' PVC 10 Slot Screen (10.5 to 15.5' bgs)
							End of boring at 16.0' bgs.		
20 / -20									
25 / -25									

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Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

Date Start: 4/30/2021
Date Finish: 4/30/2021
Drilling Company: Terra Probe Environmental
Driller's Name: J Schaffer
Drilling Method: Hand Auger/Direct Push
Sampling Method: Continuous
Rig Type: Direct Push
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): 9.97

Northing: 13415715.71
Easting: 424943.481
Casing Elevation: 986.94
Borehole Depth (ft. bgs.): 16.0
Surface Elevation: 985.69
Descriptions By: S. Turner

Well/Boring ID: JS-MW-11
Client: RACER
Location: RACER PNC
Weather Conditions: 50 F, Partly Sunny, Windy

DEPTH (feet bgl.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0.0-5.0'	5.0	0.0, 0.0, 0.0, 0.0, 0.0			(0.0-2.9') SAND, medium to coarse, subangular to subrounded; little granules to small pebbles, subangular to subrounded; poorly sorted; moist; brown (10YR 5/3).		Sand Pack (0.0 to 2.0' bgs)
5 / -5	2	5.0-8.0'	NA	0.0, 0.0, 0.0, 0.0, 0.0			(2.9-16.0') CLAY, high plasticity; trace granules to small pebbles, subangular to subrounded; soft, moist, brown (10 YR 4/3)		Bentonite (2.0 to 7.5' bgs); 2' PVC Well Casing (0.0 to 9.5' bgs)
10 / -10	3	8.0-12.0'	NA	0.0, 0.0, 0.0, 0.0, 0.0					Sand Pack (7.5 to 16.0' bgs); 2' PVC 10 Slot Screen (9.5 to 14.5' bgs)
15 / -15	4	12.0-16.0'	NA	0.0, 0.0, 0.0, 0.0, 0.0	X		NOTE: SAND, medium to coarse, subangular to subrounded; trace granules, subangular to subrounded; trace clay, non-plastic; poorly sorted; wet; brown (10YR 4/3) from 13.4 to 13.6' bgs. NOTE: Color change to gray (10YR 5/1) at 14.2' bgs.		
20 / -20							End of boring at 16.0' bgs.		
25 / -25									

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Remarks: bgs = below ground surface

Water Level Start: No groundwater encountered during drilling
Water Level End: Water level taken after a period of stabilization prior to development

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-SB-12

Soil Boring Log

Sheet: 1 of 2

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 11-30-2021
Date Completed: 11-30-2021
Total Depth: 24.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-3 ft) SAND, very fine to coarse, angular to subround; little clay; trace silt; well sorted; dry to moist; 10YR 6/2 - light brownish gray; no odor.	
2			0.0				
3			0.0				
4			0.0			(3-5 ft) SAND, very fine to very coarse, angular to subround; some clay; trace silt; well sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
5			0.0				
6		1.7	0.0			(5-5.7 ft) SAND, very fine to very coarse, angular to subround; some clay; trace small pebbles, subround to round; trace silt; trace granules, subround to round; poorly sorted; moist; 7.5YR 6/3 - light brown; no odor.	
7			0.0			(5.7-8 ft) SAND, very fine to very coarse, angular to subround; some clay; trace small pebbles, subround to round; trace silt; trace granules, subround to round; poorly sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
8			0.0				
9		3.4	0.0			(8-10.5 ft) SAND, very fine to very coarse, angular to subround; some clay; trace silt; poorly sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
10			134.0				
11			764.4			(10.5-11 ft) SAND, very fine to very coarse, angular to subround; trace silt; trace clay; well sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
12	JS-SB-12_SO-113021(12-13)		989.0			(11-14.2 ft) SAND, very fine to very coarse, angular to subround; trace silt; trace clay; well sorted; wet; 10YR 5/1 - gray; strong odor.	
13			878.3				
14		3.3	251.4				
15			57.0			(14.2-15.4 ft) CLAY, medium plasticity, slow dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, angular to subround; poorly sorted; dry to moist; very stiff; 10YR 5/2 - grayish brown; mild odor.	
16			283.0			(15.4-16 ft) CLAY, medium plasticity, slow dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, angular to subround; poorly sorted; dry to moist; medium stiff; 10YR 5/2 - grayish brown; mild odor.	
17						(16-20 ft) SAND, very fine to very coarse, angular to subround; some granules, angular to subround; little small to medium pebbles, angular to subangular; trace silt; trace clay; poorly sorted; wet; 10YR 5/1 - gray; strong odor.	
18		0.3					
19							
20							

Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks: 29.5' to JS-SB-06, 33' to proposed SVMP and MW at east property boundary, 22.3' to JS-SB-09

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 11
Static Water Level (ft bgs): NA
Top of Casing Elev: NA
Surface Elev: NA
North Coor: NA
East Coor: NA

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ, GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-SB-12

Soil Boring Log

Client Name: RACER Trust
Date Started: 11-30-2021
Logger: Joshua Dunn
Project Number: 30075936
Date Completed: 11-30-2021
Reviewer: Lexi Crisp
Project Name: RACER Pontiac North Campus 2021
Total Depth: 24.0 ft bgs

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
21		4	328.9			(20-20.5 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; trace small pebbles, subround to round; trace silt; poorly sorted; wet; 10YR 5/1 - gray; no odor.	
22			67.8			(20.5-21.2 ft) CLAY, medium plasticity, slow dilatancy; some very fine to very coarse sand, angular to subround; little granules, subangular to subround; trace silt; trace small pebbles, subround to round; poorly sorted; wet; very soft; 10YR 5/2 - grayish brown; no odor.	
23			74.7			(21.2-22.6 ft) CLAY, high plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subangular to subround; poorly sorted; dry to moist; very soft; 10YR 5/1 - gray; no odor.	
24	JS-SB-12_SO-113021(23-24)		6.8			(22.6-24 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace small pebbles, subround to round; trace silt; trace granules, subangular to subround; poorly sorted; dry to moist; hard; 10YR 5/1 - gray; no odor. 24 ft. bgs End of Boring	
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

Remarks: 29.5’ to JS-SB-06, 33’ to proposed SVMP and MW at east property boundary, 22.3’ to JS-SB-09

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

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Soil Boring Log

Boring No.: JS-SB-13

Sheet: 1 of 1

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 11-30-2021
Date Completed: 11-30-2021
Total Depth: 16.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1			0.4			(0-2 ft) SAND, very fine to coarse, angular to subround; little clay; trace silt; well sorted; dry to moist; 10YR 6/2 - light brownish gray; no odor.	
2			0.1				
3		5	0.0			(2-5 ft) SAND, very fine to very coarse, angular to subround; some clay; trace silt; well sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
4			0.1				
5			0.1				
6			0.1			(5-5.7 ft) SAND, very fine to very coarse, angular to subround; some clay; trace small pebbles, subround to round; trace silt; trace granules, subround to round; poorly sorted; moist; 7.5YR 6/3 - light brown; no odor.	
7		3.8	0.1			(5.7-8 ft) SAND, very fine to very coarse, angular to subround; some clay; trace small pebbles, subround to round; trace silt; trace granules, subround to round; poorly sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
8			0.1				
9			0.1			(8-10.5 ft) SAND, very fine to very coarse, angular to subround; some clay; trace silt; poorly sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
10		4	0.1				
11			0.0			(10.5-11 ft) SAND, very fine to very coarse, angular to subround; trace silt; trace clay; well sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
12	JS-SB-13_SO-113021		0.1			(11-13.5 ft) SAND, very fine to very coarse, angular to subround; trace silt; trace clay; well sorted; wet; 10YR 5/1 - gray; strong odor.	
13			0.2				
14		4	0.0			(13.5-14.5 ft) CLAY, medium plasticity, slow dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, angular to subround; poorly sorted; dry to moist; very stiff; 10YR 5/2 - grayish brown; mild odor.	
15			0.8			(14.5-16 ft) CLAY, medium plasticity, slow dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, angular to subround; poorly sorted; dry to moist; medium stiff; 10YR 5/2 - grayish brown; mild odor.	
16						16 ft. bgs End of Boring	
17							
18							
19							
20							

Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks: 17.5' to JS-SB-09.

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 12
Static Water Level (ft bgs): NA
Top of Casing Elev: NA
Surface Elev: NA
North Coor: NA
East Coor: NA

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

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Soil Boring Log

Boring No.: JS-SB-14

Sheet: 1 of 1

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 11-30-2021
Date Completed: 11-30-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.6			(0-2 ft) SAND, very fine to coarse, angular to subround; little clay; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry to moist; 10YR 4/2 - dark grayish brown; no odor.	
2			0.4				
3			20.5			(2-3 ft) SAND, very fine to very coarse, angular to subround; some clay; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry to moist; 10YR 4/2 - dark grayish brown; no odor.	
4			0.5			(3-6.25 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry to moist; soft; 7.5YR 6/3 - light brown; no odor.	
5			18.9				
6			3.2				
7	JS-SB-14_SO-113021(6-8)	1.4	21.3			(6.25-8 ft) SAND, very fine to very coarse, angular to subround; little clay; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; wet; 7.5YR 6/3 - light brown; moderate odor.	
8			190.7				
9			3.9			(8-10.25 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry; medium stiff; 7.5YR 6/3 - light brown; no odor.	(8-12 ft) Sample stuck in rod. Started new hole 2' west.
10	JS-SB-14_SO-113021(10-11)	3.3	2.8				
11			1.1			(10.25-20 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
12			0.4				
13			0.5				
14		0.9					
15							
16			0.1				
17			0.1				
18		4	0.1				
19			0.0				
20						20 ft. bgs End of Boring	

Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 16
Static Water Level (ft bgs): NA
Top of Casing Elev: NA
Surface Elev: NA
North Coor: NA
East Coor: NA

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

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Boring No.: JS-SB-15

Soil Boring Log

Sheet: 1 of 1

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-02-2021
Date Completed: 12-02-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND, very fine to coarse, angular to subround; some clay; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 10YR 5/2 - grayish brown; no odor.	
2			0.0			(1-4 ft) SAND, very fine to coarse, angular to subround; some clay; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 10YR 4/2 - dark grayish brown; no odor.	
3			0.1				
4			0.0				
5		3.1	0.0			(4-7.5 ft) CLAY, medium plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; dry to moist; soft; 7.5YR 6/3 - light brown; no odor.	
6			0.1				
7			0.0				
8		3.4	0.1			(7.5-8 ft) CLAY, medium plasticity, no dilatancy; trace silt; trace very fine to medium sand, angular to subround; trace granules, subround to round; trace small to medium pebbles, subangular to subround; poorly sorted; dry; very stiff; 7.5YR 6/3 - light brown; no odor.	
9			6.9			(8-9.75 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to medium pebbles, subangular to subround; poorly sorted; dry; soft; 7.5YR 6/3 - light brown; no odor.	
10			315.1			(9.75-12 ft) CLAY, high plasticity, no dilatancy; some silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to medium pebbles, subangular to subround; poorly sorted; dry; soft; 10YR 5/2 - grayish brown; moderate odor.	
11			435.3			(11-12 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry to moist; soft; 10YR 5/1 - gray; strong odor.	
12	JS-SB-15_SO-120221(12-13)		1219			(12-13 ft) SAND, very fine to very coarse, angular to subround; trace granules, subround to round; trace silt; poorly sorted; wet; very soft; 10YR 5/2 - grayish brown; strong odor.	
13		3.8	1122			(13-14 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry to moist; soft; 10YR 5/1 - gray; strong odor.	
14			236.5			(14-20 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to medium sand, angular to subround; trace granules, subround to round; trace small to medium pebbles, subangular to subround; poorly sorted; dry; very stiff; 10YR 5/1 - gray; no odor.	
15			4.6				
16	JS-SB-15_SO-120221(16-17)		0.0				
17			0.0				
18		4	0.0				
19			0.0				
20						20 ft. bgs End of Boring	

Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 12
Static Water Level (ft bgs): NA
Top of Casing Elev: NA
Surface Elev: NA
North Coor: NA
East Coor: NA

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ, GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-16

Soil Boring and Construction Log

Sheet: 1 of 1

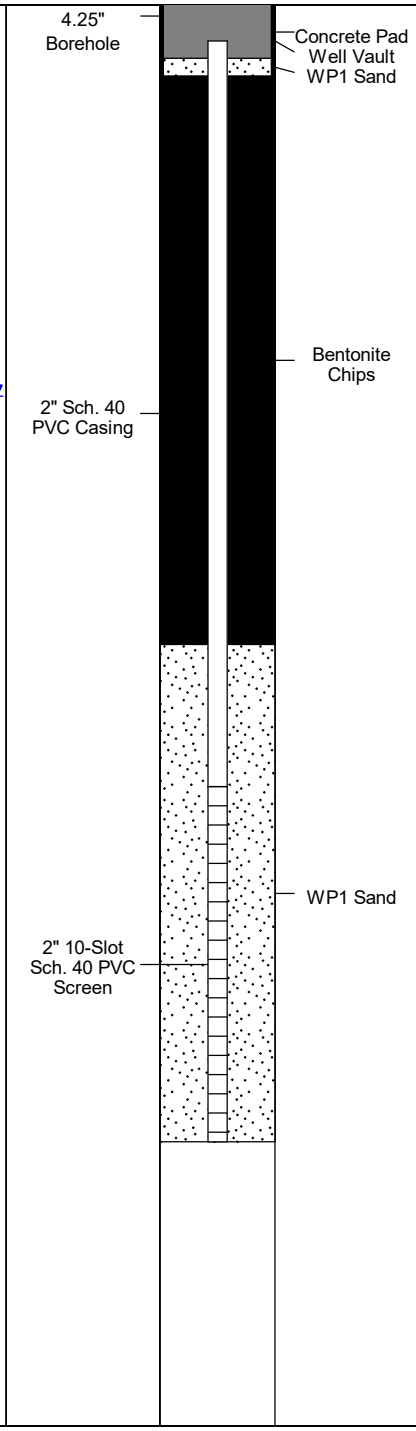
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-06-2021
Date Completed: 12-06-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.0				
3			0.0			(1-2 ft) SAND and CLAY, very fine to coarse, angular to subround, low plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 4/2 - dark grayish brown; no odor.	
4			0.0			(2-3 ft) SAND, very fine to medium, angular to subround; some clay, low to medium plasticity, no dilatancy; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
5		3.5	0.0			(3-5.5 ft) CLAY, medium plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
6			0.0			(5.5-6 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
7			0.0			(6-9.25 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; dense; 7.5YR 6/3 - light brown; no odor.	
8		4	0.0				
9			0.0				
10			0.0			(9.25-13 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 7.5YR 6/3 - light brown; no odor.	
11			0.0				
12			0.0				
13		3.5	0.0			(13-13.25 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; wet; 10YR 5/1 - gray; no odor.	
14	JS-SB-16_SO-120621(14-15)		5.4			(13.25-14.25 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 10YR 5/2 - grayish brown; no odor.	
15			0.3			(14.25-15 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; moist to wet; 10YR 5/1 - gray; no odor.	
16	JS-SB-16_SO-120621(16-17)		0.0			(15-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.	
17		4	0.0				
18			0.0				
19			0.0				
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 5.5
Static Water Level (ft bgs): NA
Top of Casing Elev: 985.34
Surface Elev: 985.75
North Coor: 13415740.97
East Coor: 424978.25

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-SB-17

Soil Boring Log

Sheet: 1 of 1

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-06-2021
Date Completed: 12-06-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 5/2 - grayish brown; no odor.	
2			0.0			(1-2 ft) SAND and CLAY, very fine to coarse, angular to subround, low plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 5/2 - grayish brown; no odor.	
3			0.0			(2-3 ft) SAND, very fine to medium, angular to subround; some clay, low to medium plasticity, no dilatancy; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
4			0.0			(3-6 ft) CLAY, medium plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; dry to moist; soft; 7.5YR 6/3 - light brown; no odor.	
5			0.0				
6		3.5	0.0			(6-9.4 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
7			0.0				
8			0.0				
9			0.0				
10	JS-SB-17_SO-120621(10-11)	3.9	68.4			(9.4-9.6 ft) SAND, very fine to very coarse, angular to subround; some granules, subangular to subround; trace silt; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.	
11			18.4			(9.6-10 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
12			4.2			(10-10.75 ft) SAND, very fine to medium, angular to subround; some clay, low to medium plasticity, no dilatancy; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
13			0.5			(10.75-12 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; moist to wet; 10YR 5/1 - gray; no odor.	
14	JS-SB-17_SO-120621(14-15)	3.7	0.1			(12-15.75 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.	
15			0.0				
16			0.0			(15.75-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; very dense; 10YR 5/1 - gray; no odor.	
17			0.0				
18		3.5	0.0				
19			0.0				
20						20 ft. bgs End of Boring	

Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 9.25
Static Water Level (ft bgs): NA
Top of Casing Elev: NA
Surface Elev: NA
North Coor: NA
East Coor: NA

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Soil Boring Log

Boring No.: JS-SB-18

Sheet: 1 of 1

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-06-2021
Date Completed: 12-06-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND, very fine to very coarse, angular to subround; some clay, medium plasticity, no dilatancy; trace silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 5/2 - grayish brown; no odor.	
2			0.0			(1-2 ft) SAND, very fine to very coarse, angular to subround; some clay, medium plasticity, no dilatancy; trace silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/1 - very dark gray; no odor.	
3			0.0			(2-4 ft) SAND and CLAY, very fine to very coarse, angular to subround, medium plasticity, no dilatancy; trace silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/3 - light brown; no odor.	
4			0.0				
5		3.7	0.0			(4-7.25 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 4/2 - brown; no odor.	
6			0.0				
7			0.0				
8		4	0.0			(7.25-11.5 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to large pebbles, angular to subround; poorly sorted; dry; medium stiff; 10YR 5/2 - grayish brown; no odor.	
9			0.0				
10			0.0				
11			0.0				
12		4	0.0			(11.5-13.6 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to large pebbles, angular to subround; poorly sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
13			1.0				
14			2.7			(13.6-13.7 ft) NOTE: Dry very fine to very coarse sand. (13.7-20 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to large pebbles, angular to subround; poorly sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
15	JS-SB-18_SO-120621(15-16)		8.8				
16			0.6				
17	JS-SB-18_SO-120621(17-18)	4	0.0				
18			0.0				
19			0.0				
20						20 ft. bgs End of Boring	

Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 9.25
Static Water Level (ft bgs): NA
Top of Casing Elev: NA
Surface Elev: NA
North Coor: NA
East Coor: NA

SOIL BORING LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ, GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-19

Soil Boring and Construction Log

Sheet: 1 of 1

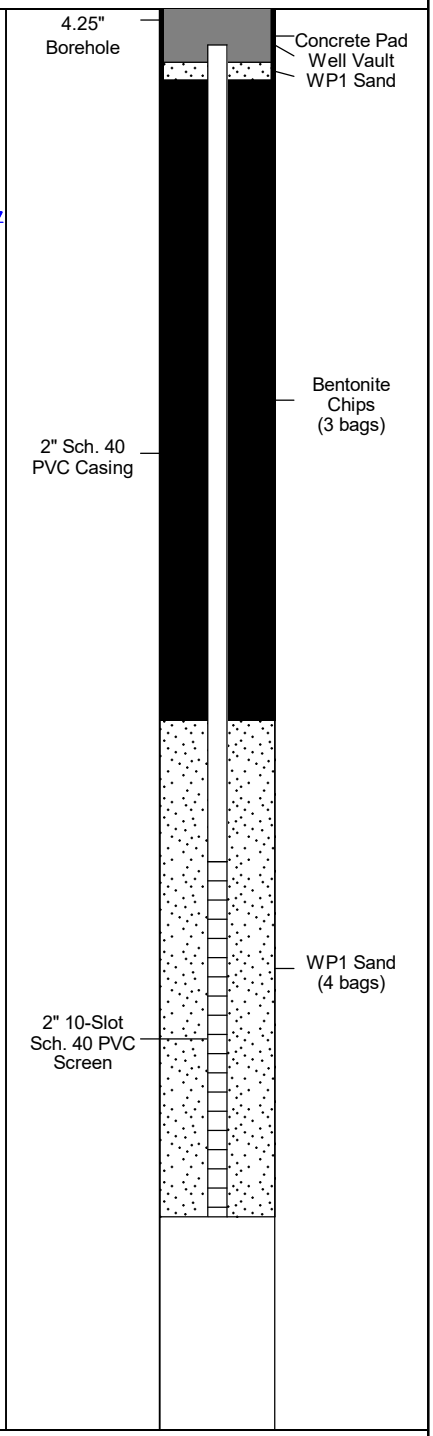
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-02-2021
Date Completed: 12-08-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.4			(0-1 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.1				
3			0.1			(1-3 ft) CLAY and SAND, very fine to coarse, angular to subround, low plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/3 - light brown; no odor.	
4			0.1			(3-4 ft) CLAY and SAND, very fine to medium, angular to subround, low to medium plasticity, no dilatancy; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
5			0.1			(4-5.25 ft) CLAY, medium plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist to wet; soft; 7.5YR 6/3 - light brown; no odor.	
6		3.3	0.0			(5.25-7.5 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; soft; 10YR 5/1 - gray; no odor.	
7			0.2				
8			0.0			(7.5-10.5 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 7.5YR 6/3 - light brown; no odor.	
9			0.1				
10		3.8	0.1				
11			0.0			(10.5-14.5 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
12			0.0				
13			0.0				
14		4	16.5				
15	JS-SB-19_SO-120221(15-16)		26.8			(14.5-16 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; moist to wet; 10YR 5/1 - gray; no odor.	
16			0.3			(16-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.	
17	JS-SB-19_SO-120221(17-18)		0.2				
18		4	0.0				
19			0.0				
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 3
Static Water Level (ft bgs): NA
Top of Casing Elev: 984.05
Surface Elev: 984.48
North Coor: 13415749.12
East Coor: 424960.75

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Soil Boring and Construction Log

Boring No.: JS-MW-20

Sheet: 1 of 1

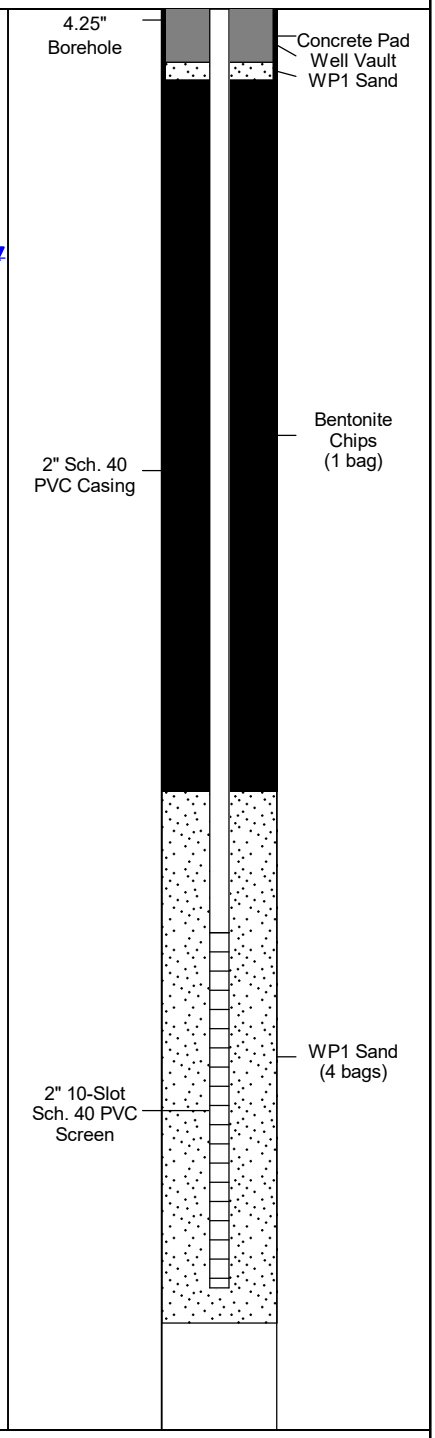
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-03-2021
Date Completed: 12-07-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-2 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.0				
3			0.0			(2-3 ft) CLAY, high plasticity, no dilatancy; some very fine to coarse sand, angular to subround; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/3 - light brown; no odor.	
4			0.0			(3-4 ft) CLAY, medium to high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
5		2.6	0.0			(4-5.25 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
6			0.0			(5.25-6.25 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; moist; soft; 7.5YR 6/3 - light brown; no odor.	
7			0.0			(6.25-10 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; soft; 7.5YR 6/3 - light brown; no odor.	
8			0.0				
9			0.0				
10		4	0.0			(10-13.75 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; very stiff; 10YR 5/1 - gray; no odor.	
11			0.0				
12			0.0				
13			0.0				
14	JS-SB-20_SO-120321(13.7-14.7)	4	0.0			(13.75-14.2 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
15			0.0			(14.2-14.3 ft) NOTE: Very fine to very coarse wet sand seam.	
16			0.0			(14.3-14.5 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
17	JS-SB-20_SO-120321(16-17)		0.0			(14.5-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; very stiff; 10YR 5/1 - gray; no odor.	
18		1.9	0.0				
19			0.0				
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 3.5
Static Water Level (ft bgs): NA
Top of Casing Elev: 985.64
Surface Elev: 986.07
North Coor: 13415682.28
East Coor: 424909.07

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-21

Soil Boring and Construction Log

Sheet: 1 of 1

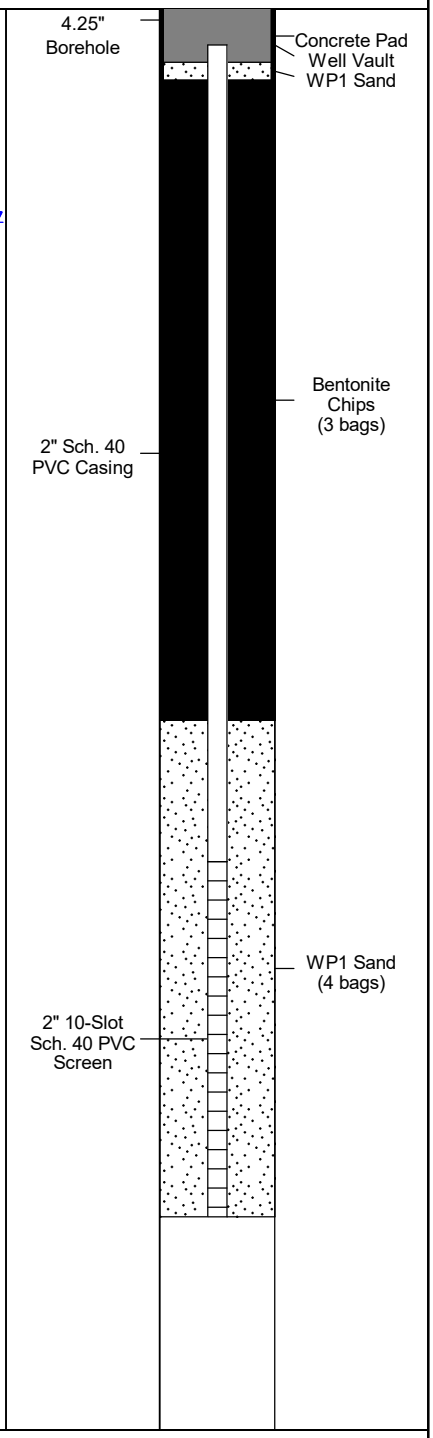
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-02-2021
Date Completed: 12-08-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0			0.0			(0-2 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
1			0.0				
2			0.0			(2-5.5 ft) CLAY, medium plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist; soft; 7.5YR 6/3 - light brown; no odor.	
3		5	0.0				
4			0.0				
5			0.0				
6			0.0			(5.5-6.5 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; soft; 10YR 5/2 - grayish brown; no odor.	
7		3.6	0.0			(6.5-9.25 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 7.5YR 6/3 - light brown; no odor.	
8			0.0				
9			0.0				
10		4	0.0			(9.25-12 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
11			0.0				
12			0.0			(12-13.25 ft) CLAY, medium plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist; soft; 7.5YR 6/3 - light brown; no odor.	
13	JS-SB-21_SO-120221(13-14)		0.0				
14		3.5	0.0			(13.25-16.25 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; moist to wet; 10YR 5/1 - gray; no odor.	
15			0.0				
16			0.0				
17						(16.25-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.	
18		0.7					
19							
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 3
Static Water Level (ft bgs): NA
Top of Casing Elev: 983.59
Surface Elev: 984.13
North Coor: 13415738.13
East Coor: 424911.02

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-22

Soil Boring and Construction Log

Sheet: 1 of 1

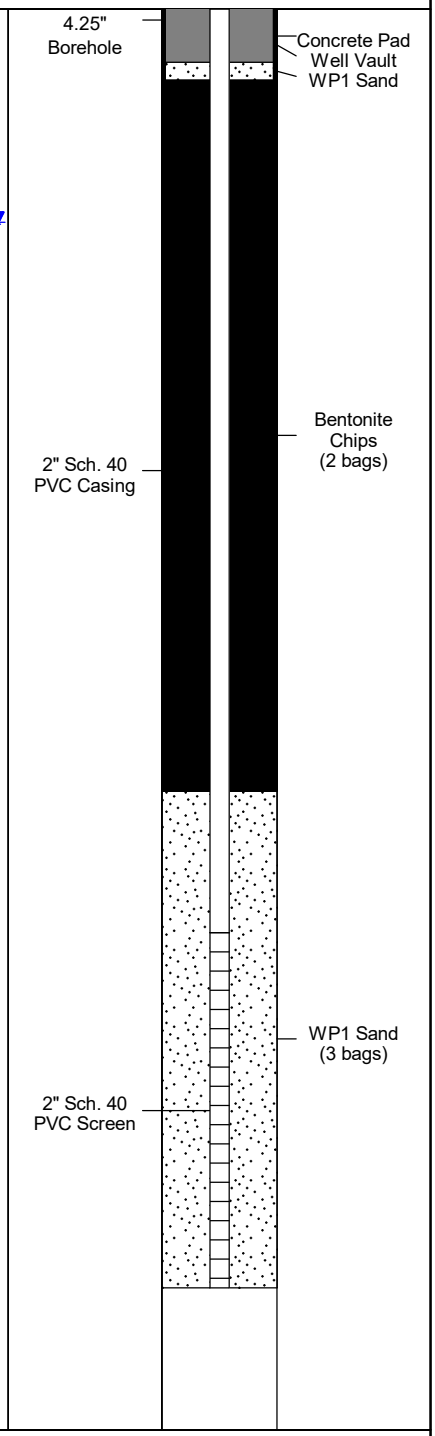
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-02-2021
Date Completed: 12-08-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND, very fine to coarse, angular to subround; some clay, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.0			(1-2 ft) SAND, very fine to coarse, angular to subround; some clay, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; 7.5YR 6/3 - light brown; no odor.	
3			0.0			(2-5 ft) CLAY and SAND, very fine to medium, angular to subround, high plasticity, no dilatancy; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
4			0.0				
5			0.1			(5-7 ft) CLAY, high plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; medium stiff; 7.5YR 6/3 - light brown; no odor.	
6	JS-SB-22_SO-120221(6-7)		0.8				
7		3.8	0.7			(7-14.25 ft) CLAY, high plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small pebbles, subround to round; poorly sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
8			0.6				
9			0.2				
10		3.4	0.4				
11			0.1				
12			0.3				
13			0.1				
14		4	0.0				
15	JS-SB-22_SO-120221(14.25-15.25)		0.2			(14.25-16.5 ft) SAND, very fine to very coarse, angular to subround; little granules, subround to round; trace small to medium pebbles, subangular to subround; trace silt; poorly sorted; wet; 10YR 5/3 - brown; no odor.	
16			0.0				
17			0.0			(16.5-18.25 ft) SAND, very fine to very coarse, angular to subround; some granules, subround to round; little small to medium pebbles, angular to subround; trace silt; poorly sorted; wet; 10YR 5/3 - brown; no odor.	
18		4	0.0				
19			0.0			(18.25-20 ft) CLAY, high plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small pebbles, subround to round; poorly sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 3
Static Water Level (ft bgs): NA
Top of Casing Elev: 983.14
Surface Elev: 983.52
North Coor: 13415776.53
East Coor: 424915.22

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Soil Boring and Construction Log

Boring No.: JS-MW-23

Sheet: 1 of 1

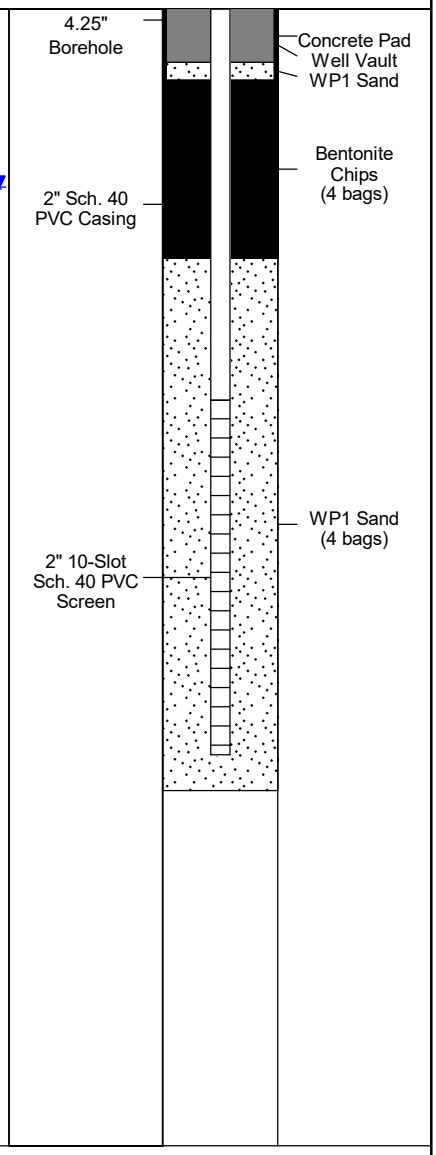
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-01-2021
Date Completed: 12-02-2021
Total Depth: 16.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0		5	0.0			(0-1 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
1			0.0				
2			0.0			(1-2 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/3 - light brown; no odor.	
3			0.0			(2-3 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
4			0.0			(3-4 ft) CLAY, medium to high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
5		2.3	0.3			(4-5.5 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
6			7.4				
7			22.5			(5.5-10.25 ft) SAND, very fine to very coarse, angular to subround; trace granules, subround to round; trace silt; trace clay; poorly sorted; wet; soft; 10YR 5/1 - gray; strong odor.	
8			316.5				
9			421.0				
10	JS-SB-23_SO-120121(10-11)	4	508.0				
11			16.7			(10.25-12 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; very stiff; 10YR 5/1 - gray; no odor.	
12			6.7			(12-12.25 ft) NOTE: Wet sand seam.	
13		3.3	3.4			(12.25-16 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; very stiff; 10YR 5/1 - gray; no odor.	
14			2.8				
15	JS-SB-23_SO-120121(15-16)		1.9				
16						16 ft. bgs End of Boring	
17							
18							
19							
20							

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 2.5
Static Water Level (ft bgs): NA
Top of Casing Elev: 984.30
Surface Elev: 984.63
North Coor: 13415702.54
East Coor: 424874.83

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-24

Soil Boring and Construction Log

Sheet: 1 of 1

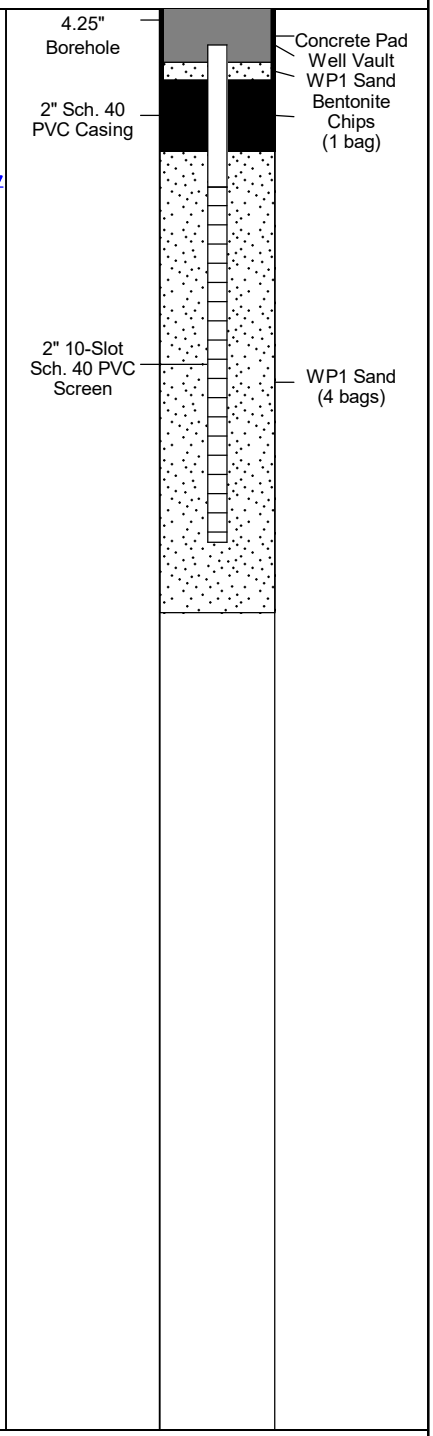
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-01-2021
Date Completed: 12-02-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.0			(1-2 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/3 - light brown; no odor.	
3			0.0			(2-3 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
4			0.0			(3-4 ft) CLAY, medium to high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
5		3	0.0			(4-5.25 ft) CLAY and SAND, very fine to medium, angular to subround, high plasticity, no dilatancy; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
6			0.0			(5.25-7.25 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry to moist; soft; 10YR 5/1 - gray; no odor.	
7			0.2			(7.25-10.25 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; dense; 7.5YR 6/3 - light brown; no odor.	
8			0.7				
9			0.7				
10	JS-SB-24_SO-120121(10-11)	4	1.0				
11			1.1			(10.25-11.25 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; dense; 10YR 5/1 - gray; no odor. (11.25-11.3 ft) NOTE: Moist sand seam.	
12		3.1	0.0			(11.3-15.5 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; dense; 10YR 5/1 - gray; no odor.	
13			0.1				
14			0.1				
15			0.1				
16			0.3			(15.5-16.5 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; wet; 10YR 5/1 - gray; no odor.	
17			0.7			(16.5-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; soft; 10YR 5/1 - gray; no odor.	
18		3.5	0.9				
19			0.6				
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 2.5
Static Water Level (ft bgs): NA
Top of Casing Elev: 983.32
Surface Elev: 983.70
North Coor: 13415741.13
East Coor: 424876.89

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Soil Boring and Construction Log

Boring No.: JS-MW-25

Sheet: 1 of 1

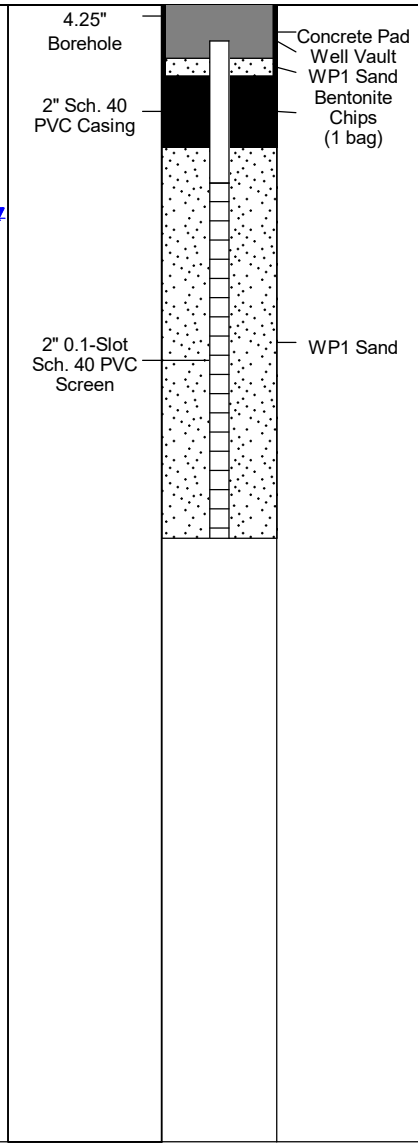
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-01-2021
Date Completed: 12-02-2021
Total Depth: 16.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0			0.0			(0-1 ft) SAND, very fine to coarse, angular to subround; some clay, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
1			0.0				
2			0.0			(1-3 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/3 - light brown; no odor.	
3		5	0.0				
4			0.0			(3-5 ft) CLAY and SAND, very fine to medium, angular to subround, high plasticity, no dilatancy; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
5			0.0				
6			0.0			(5-7.75 ft) CLAY, medium plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; soft; 7.5YR 6/3 - light brown; no odor.	
7		3.8	0.0				
8			0.0			(7.75-16 ft) CLAY, high plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small pebbles, subround to round; poorly sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
9	JS-SB-25_SO-120121(9-10)		0.3				
10		3.7	0.1				
11			0.2				
12			0.0				
13			0.0				
14		4	0.2				
15			0.2				
16						16 ft. bgs End of Boring	
17							
18							
19							
20							

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): NA
Top of Casing Elev: 983.11
Surface Elev: 983.51
North Coor: 13415784.19
East Coor: 424873.13

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Soil Boring and Construction Log

Boring No.: JS-MW-26

Sheet: 1 of 2

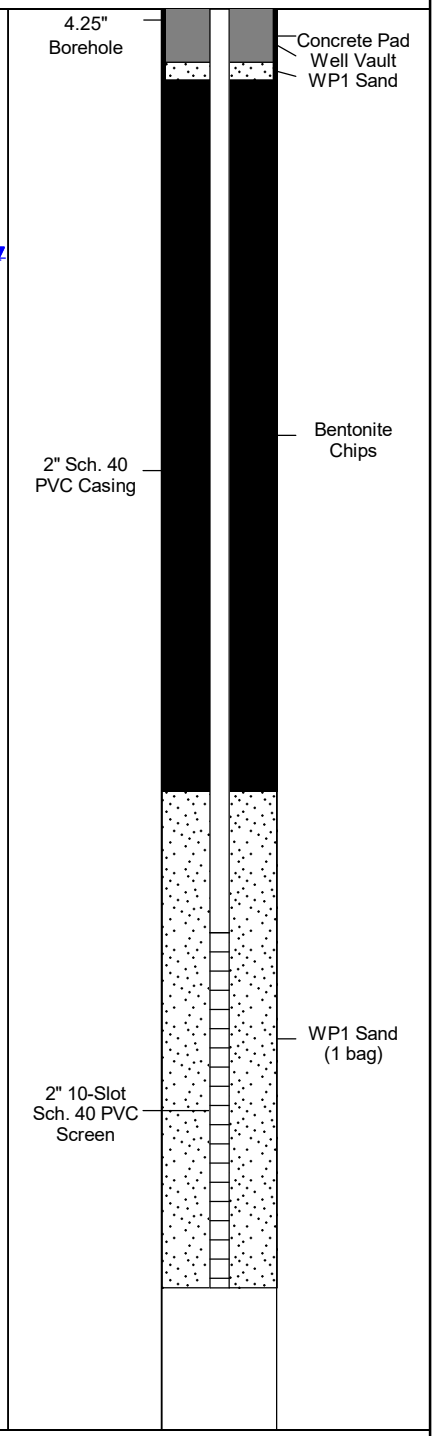
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-03-2021
Date Completed: 12-07-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0			0.0			(0-1 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
1			0.0				
2		5	0.0			(1-2 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 7.5YR 6/3 - light brown; no odor.	
3			0.0			(2-3 ft) SAND, very fine to medium, angular to subround; some clay, low plasticity, no dilatancy; trace silt; poorly sorted; moist; soft; 10YR 5/1 - gray; no odor.	
4			0.0			(3-4 ft) CLAY, medium to high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
5			0.0			(4-5 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
6		3	0.0			(5-7.5 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; dry to moist; soft; 7.5YR 6/3 - light brown; no odor.	
7			0.0				
8			0.0			(7.5-10.75 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.	
9			0.0				
10		4	0.0				
11			0.0			(10.75-16 ft) CLAY, medium to high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to medium pebbles, subangular to subround; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.	
12			0.0				
13			0.0				
14		4	0.0				
15			0.0				
16	JS-SB-26_SO-120321(16-17)		0.0			(16-16.25 ft) SAND, very fine to coarse, angular to subround; little granules, subround to round; trace silt; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.	
17			0.0			(16.25-16.5 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; moist; soft; 10YR 5/1 - gray; no odor.	
18		3.9	0.0				
19			0.0			(16.5-16.75 ft) GRANULES, subround to round; some small to large pebbles, subangular to round; little very fine to very coarse sand, angular to	
20							

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 3.5
Static Water Level (ft bgs): NA
Top of Casing Elev: 984.22
Surface Elev: 984.64
North Coor: 13415706.73
East Coor: 424862.17

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-26

Soil Boring and Construction Log

Sheet: 2 of 2

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-03-2021
Date Completed: 12-07-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21						subround; trace silt; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.		
						(16.75-17.25 ft) SAND, very fine to very coarse, angular to subround; trace silt; trace clay; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.		
22						(17.25-18 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; dry to moist; soft; 10YR 5/2 - grayish brown; no odor.		
23								
24						(18-20 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to large pebbles, subangular to subround; well sorted; dry; medium stiff; 10YR 5/2 - grayish brown; no odor.		
25						20 ft. bgs End of Boring		
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

Remarks:

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-27

Soil Boring and Construction Log

Sheet: 1 of 1

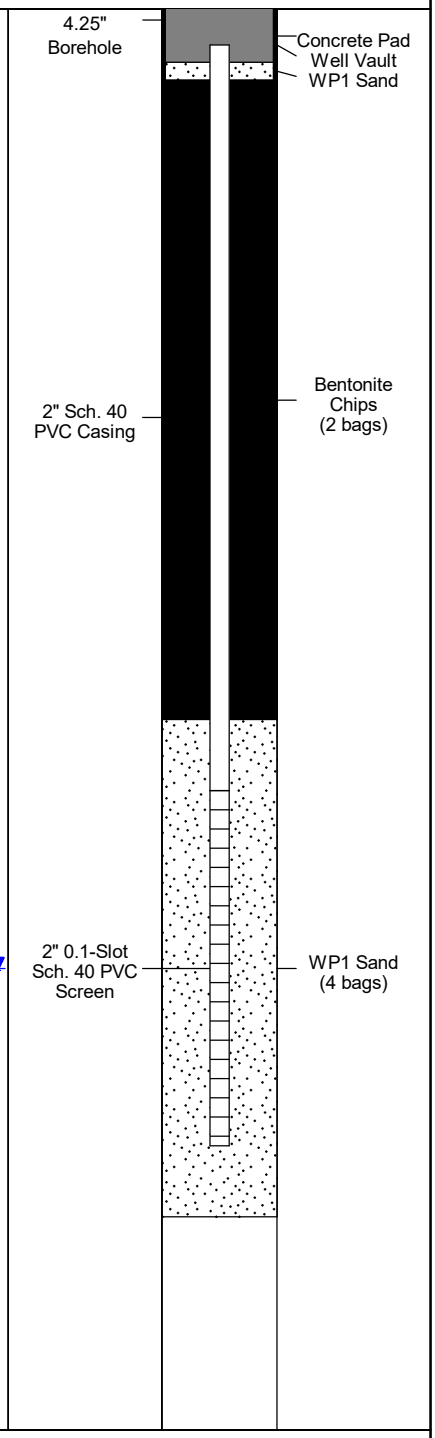
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-06-2021
Date Completed: 12-08-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND, very fine to coarse, angular to subround; some clay; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry to moist; 10YR 4/2 - dark grayish brown; no odor.	
2			0.0				
3			0.0			(1-3 ft) SAND and CLAY, very fine to coarse, angular to subround; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry to moist; 10YR 4/3 - brown; no odor.	
4			0.0			(3-4 ft) CLAY and SAND, very fine to coarse, angular to subround, medium plasticity, no dilatancy; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; dry to moist; soft; 10YR 5/2 - grayish brown; no odor.	
5			0.0				
6		1.8	0.0			(4-6.5 ft) CLAY, high plasticity, no dilatancy; some very fine to coarse sand, angular to subround; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; moist; soft; 10YR 4/3 - brown; no odor.	
7			0.0			(6.5-7.25 ft) CLAY, high plasticity, no dilatancy; some very fine to coarse sand, angular to subround; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; moist; soft; 10YR 4/3 - brown; no odor.	
8		4	0.0			(7.25-10 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; well sorted; dry; stiff; 10YR 5/2 - grayish brown; no odor.	
9			0.0				
10			0.0			(10-13.5 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; well sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
11			0.0				
12			0.0				
13			0.0				
14	JS-SB-27_SO-120621(13.5-14.5)	4.1	0.0			(13.5-14 ft) SAND, very fine to coarse, angular to subround; little granules, subangular to subround; little clay; trace silt; trace small to medium pebbles, subangular to subround; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.	
15			0.0			(14-14.5 ft) SAND, very fine to very coarse, angular to subround; trace silt; well sorted; wet; 10YR 5/2 - grayish brown; no odor.	
16			0.0			(14.5-15.25 ft) CLAY, high plasticity, no dilatancy; little very fine to coarse sand, angular to subround; trace silt; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; moist; soft; 10YR 4/3 - brown; no odor.	
17			0.0				
18		3.7	0.0			(15.25-20 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to coarse sand, angular to subround; trace granules, subangular to subround; trace small to medium pebbles, subangular to subround; poorly sorted; moist; soft; 10YR 5/1 - gray; no odor.	
19			0.0				
20						20 ft. bgs End of Boring	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 13.5
Static Water Level (ft bgs): NA
Top of Casing Elev: 987.55
Surface Elev: 987.90
North Coor: 13415655.34
East Coor: 424961.72

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

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Boring No.: JS-MW-28

Soil Boring and Construction Log

Sheet: 1 of 2

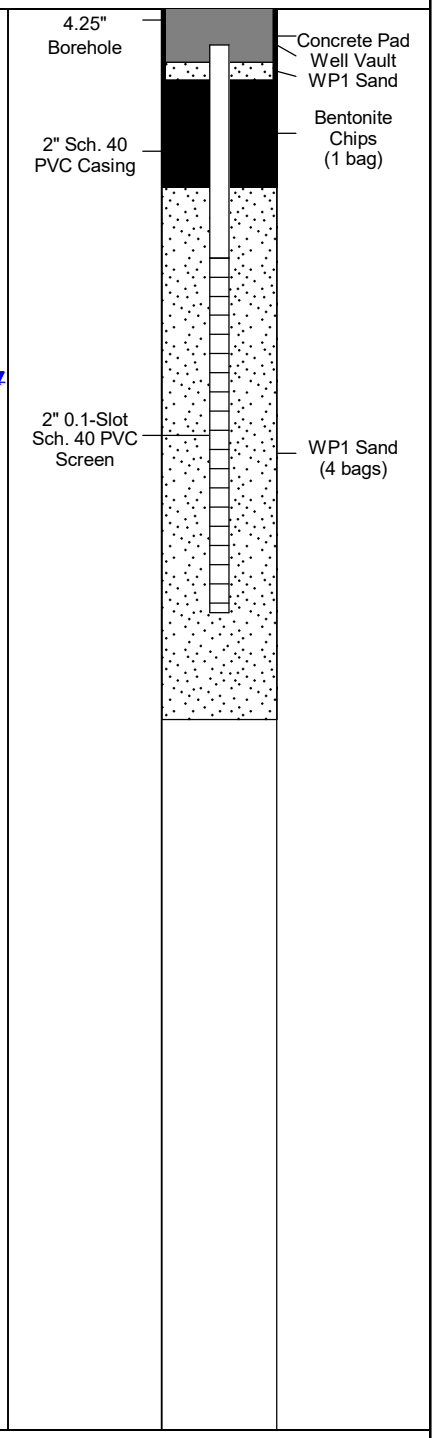
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-03-2021
Date Completed: 12-07-2021
Total Depth: 24.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.0			(1-2 ft) SAND and CLAY, very fine to coarse, angular to subround, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 7.5YR 6/3 - light brown; no odor.	
3			0.0			(2-3 ft) CLAY and SAND, very fine to medium, angular to subround, medium to high plasticity, no dilatancy; trace silt; poorly sorted; moist; soft; 10YR 4/2 - dark grayish brown; no odor.	
4			0.0			(3-4 ft) CLAY, medium to high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist; soft; 2.5Y 5/2 - grayish brown; no odor.	
5			0.0			(4-5.25 ft) CLAY, high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; moist; soft; 10YR 5/2 - grayish brown; no odor.	
6	JS-SB-28_SO-120321(5.25-6.25)	2.8	0.0			(5.25-7.25 ft) SAND and CLAY, very fine to very coarse, angular to subround, medium plasticity, no dilatancy; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.	
7			0.0				
8			0.0			(7.25-12 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 7.5YR 6/3 - light brown; no odor.	
9			0.0				
10		2.4	0.0				
11			0.0				
12			0.0				
13			0.0			(12-17.5 ft) CLAY, medium to high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to medium pebbles, subangular to subround; well sorted; dry; dense; 10YR 5/1 - gray; no odor.	
14		2.3	0.0				
15			0.0				
16			0.0				
17			0.0				
18	JS-SB-28_SO-120321(17.5-18.5)	4	0.0			(17.5-19.5 ft) SAND, very fine to coarse, angular to subround; little granules, subround to round; trace silt; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.	
19			0.0				
20						(19.5-19.75 ft) GRANULES, subround to round;	

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 5.25
Static Water Level (ft bgs): NA
Top of Casing Elev: 985.26
Surface Elev: 985.72
North Coor: 13415678.73
East Coor: 424863.61

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-28

Soil Boring and Construction Log

Client Name: RACER Trust
Date Started: 12-03-2021
Logger: Joshua Dunn
Project Number: 30075936
Date Completed: 12-07-2021
Reviewer: Lexi Crisp
Project Name: RACER Pontiac North Campus 2021
Total Depth: 24.0 ft bgs

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21			0.0			some small to large pebbles, subangular to round; little very fine to very coarse sand, angular to subround; trace silt; poorly sorted; wet; 10YR 5/2 - grayish brown; no odor.		
			0.0					
22		2.2				(19.75-24 ft) CLAY, high plasticity, no dilatancy; trace silt; trace very fine to very coarse sand, angular to subround; trace granules, subround to round; trace small to large pebbles, subangular to subround; well sorted; dry; medium stiff; 10YR 5/1 - gray; no odor.		
			0.0					
23								
			0.0					
24						24 ft. bgs End of Boring		
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

Remarks:

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-29

Soil Boring and Construction Log

Sheet: 1 of 2

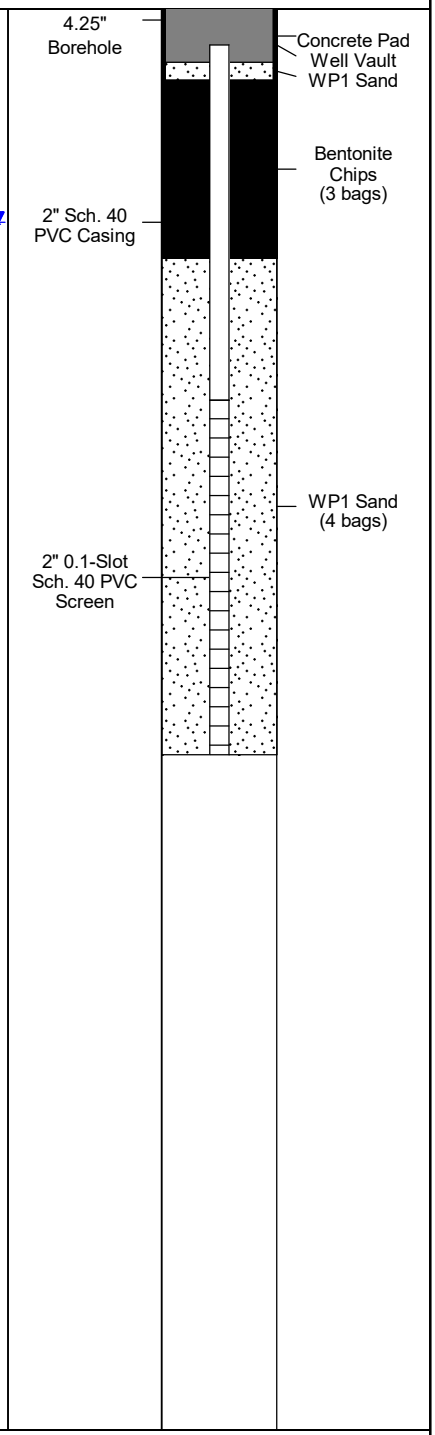
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-02-2021
Date Completed: 12-08-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0			0.0			(0-1 ft) SAND, very fine to coarse, angular to subround; some clay, low plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
1			0.0				
2		5	0.0			(1-3 ft) SAND, very fine to very coarse, angular to subround; some clay, low plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; dry to moist; very soft; 7.5YR 6/4 - light brown; no odor.	
3			0.0			(3-4 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; poorly sorted; moist; soft; 10YR 3/3 - dark brown; no odor.	
4			0.0			(4-5.5 ft) CLAY, medium plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; poorly sorted; wet; soft; 7.5YR 6/3 - light brown; no odor.	
5			0.0				
6		3.5	0.0			(5.5-9 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; poorly sorted; dry; soft; 10YR 5/2 - grayish brown; no odor.	
7	JS-SB-29_SO-120721(7-8)		30.3				
8			1.4				
9	JS-SB-29_SO-120721(9-10)		0.2			(9-16 ft) CLAY, medium plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 10YR 5/1 - gray; no odor.	
10		4	0.2				
11			0.1				
12			0.1				
13			0.1				
14		4	0.1				
15			0.1				
16			0.1				
17	JS-SB-29_SO-120721(16-17)		0.1			(16-17.25 ft) SAND, very fine to very coarse, angular to subround; little granules, subangular to subround; little small to medium pebbles, subangular to subround; trace silt; poorly sorted; moist to wet; 10YR 5/1 - gray; no odor.	
18		3.8	0.1			(17.25-17.75 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 7.5YR 6/3 - light brown; no odor.	
19			0.1			(17.75-18.5 ft) SAND, very fine to very coarse, angular to subround; little clay; trace silt; poorly sorted; wet; 7.5YR 6/3 - light brown; no odor.	
20							

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 3
Static Water Level (ft bgs): NA
Top of Casing Elev: 984.93
Surface Elev: 985.28
North Coor: 13415700.42
East Coor: 424909.93

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

ARCADIS Design & Consultancy for natural and built assets

Boring No.: JS-MW-29

Soil Boring and Construction Log

Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-02-2021
Date Completed: 12-08-2021
Total Depth: 20.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21						(18.5-20 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 10YR 5/1 - gray; no odor.		
22						20 ft. bgs End of Boring		
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

Remarks:

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

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Soil Boring and Construction Log

Boring No.: JS-MW-30

Sheet: 1 of 1

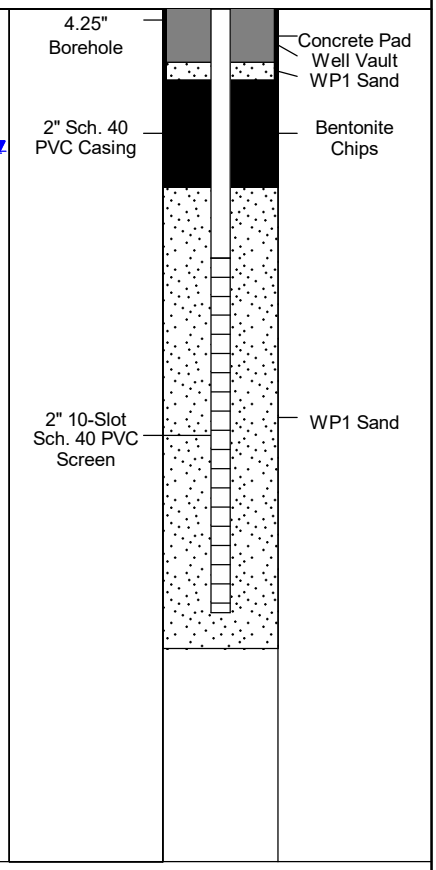
Client Name: RACER Trust
Project Number: 30075936
Project Name: RACER Pontiac North Campus 2021

Date Started: 12-07-2021
Date Completed: 12-07-2021
Total Depth: 12.0 ft bgs

Logger: Joshua Dunn
Reviewer: Lexi Crisp

Depth (feet)	Sample ID	Rec. (ft)	PID (ppm)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
1		5	0.0			(0-1 ft) SAND, very fine to very coarse, angular to subround; some clay, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 10YR 3/2 - very dark grayish brown; no odor.	
2			0.0			(1-2 ft) SAND, very fine to very coarse, angular to subround; some clay, medium plasticity, no dilatancy; little silt; trace granules, subround to round; poorly sorted; moist; very soft; 7.5YR 6/3 - light brown; no odor.	
3			0.0			(2-4 ft) CLAY, medium to high plasticity, no dilatancy; some very fine to medium sand, angular to subround; trace silt; poorly sorted; wet; soft; 10YR 5/1 - gray; no odor.	
4			0.0				
5	JS-SB-30_SO-120321(4.5-5.5)		0.0			(4-5.5 ft) CLAY and SAND, very fine to very coarse, angular to subround, high plasticity, no dilatancy; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; wet; soft; 10YR 5/2 - grayish brown; no odor.	
6		3.3	0.0				
7			0.0			(5.5-5.75 ft) CLAY, high plasticity, no dilatancy; some very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; dry to moist; soft; 10YR 5/2 - grayish brown; no odor.	
8			0.0			(5.75-7.25 ft) CLAY, high plasticity, no dilatancy; little very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; trace small to large pebbles, subround to round; poorly sorted; dry to moist; medium stiff; 10YR 4/3 - brown; no odor.	
9			0.0				
10		4.1	0.0			(7.25-10 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; medium stiff; 10YR 5/2 - grayish brown; no odor.	
11			0.0				
12						(10-12 ft) CLAY, high plasticity, no dilatancy; trace very fine to very coarse sand, angular to subround; trace silt; trace granules, subround to round; well sorted; dry; stiff; 10YR 5/2 - grayish brown; no odor.	
13						12 ft. bgs End of Boring	
14							
15							
16							
17							
18							
19							
20							

Construction Details



Drilling Co.: Terra Probe
Driller: Scott Seals, Floyd Kanavel
Drilling Method: Direct-Push
Drill Rig: Geoprobe
Remarks:

Sampling Method: Dual Tube
Sampling Dimensions: 4
First Encountered Water (ft bgs): 2
Static Water Level (ft bgs): NA
Top of Casing Elev: 984.07
Surface Elev: 984.54
North Coor: 13415709.86
East Coor: 424862.49

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\FULCRUM-GINT FILES\SOIL-ROCK BORING LOG V2.0\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 12/16/21

Appendix B

Laboratory Analytical Reports

Analytical Laboratory Report

Report ID: S24102.01(01)
Generated on 05/19/2021

Report to

Attention: Alexis Crisp
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX:
Email: Alexis.Crisp@arcadis.com

Addtional Contacts: Brad Saunders

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S24102.01-S24102.06
Project: Racer PNC / 30075936 Task 5
Collected Date(s): 05/10/2021
Submitted Date/Time: 05/12/2021 13:55
Sampled by: Seth Turner
P.O. #: 30075936 TASK 5

Table of Contents

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Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)



Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
N/A	Not Applicable
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S24102.01	JN-SB-01_GW-051021	Groundwater	05/10/21 08:45
S24102.02	JN-SB-02_GW-051021	Groundwater	05/10/21 09:40
S24102.03	JN-SB-03_GW-051021	Groundwater	05/10/21 10:30
S24102.04	JN-SB-04_GW-051021	Groundwater	05/10/21 11:05
S24102.05	JN-SB-05_GW-051021	Groundwater	05/10/21 12:00
S24102.06	Trip Blank	Water	05/10/21 00:01

Lab Sample ID: S24102.01
Sample Tag: JN-SB-01_GW-051021
Collected Date/Time: 05/10/2021 08:45
Matrix: Groundwater
COC Reference: 137668

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/17/21 12:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 03:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S24102.01 (continued)
Sample Tag: JN-SB-01_GW-051021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 03:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	1	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24102.02
Sample Tag: JN-SB-02_GW-051021
Collected Date/Time: 05/10/2021 09:40
Matrix: Groundwater
COC Reference: 137668

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/17/21 12:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 03:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S24102.02 (continued)
Sample Tag: JN-SB-02_GW-051021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 03:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24102.03
Sample Tag: JN-SB-03_GW-051021
Collected Date/Time: 05/10/2021 10:30
Matrix: Groundwater
COC Reference: 137668

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/17/21 12:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 04:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S24102.03 (continued)
Sample Tag: JN-SB-03_GW-051021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 04:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24102.04
Sample Tag: JN-SB-04_GW-051021
Collected Date/Time: 05/10/2021 11:05
Matrix: Groundwater
COC Reference: 137668

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/17/21 12:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 04:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S24102.04 (continued)
Sample Tag: JN-SB-04_GW-051021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 04:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24102.05
Sample Tag: JN-SB-05_GW-051021
Collected Date/Time: 05/10/2021 12:00
Matrix: Groundwater
COC Reference: 137668

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/17/21 12:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 05:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S24102.05 (continued)
Sample Tag: JN-SB-05_GW-051021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 05:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24102.06
Sample Tag: Trip Blank
Collected Date/Time: 05/10/2021 00:01
Matrix: Water
COC Reference: 137668

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/17/21 12:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 01:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S24102.06 (continued)
Sample Tag: Trip Blank

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/15/21 01:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Merit Laboratories Login Checklist

Lab Set ID: S24102
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Racer PNC / 30075936 Task 5
Submitted: 05/12/2021 13:55 Login User: SRS

Attention: Alexis Crisp
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX:
Email: Alexis.Crisp@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[ ] Yes	[X] No	[ ] N/A	COC adequately filled out	Trip blank not listed
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[X] No	[ ] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

137668

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Brad Saunders
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30075936 Task 5
E-MAIL ADDRESS: Lexi.Crisp@arcadis.com Brad.Saunders@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Racer PNC / 30075936 Task 5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PAHs ST
24402.01	5/10/21	845	JN-SB-01_GW-051021	GW	4	1	3						X	X
.02		940	JN-SB-02_GW-051021	GW	4	1	3							
.03		1030	JN-SB-03_GW-051021	GW	4	1	3							
.04		1105	JN-SB-04_GW-051021	GW	4	1	3							
.05	↓	1200	JN-SB-05_GW-051021	GW	4	1	3							
.06														

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Seth Turner / Arcadis ☒ Sampler	DATE: 5/12/21	TIME: 1355	
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature]	DATE: 5/12/21	TIME: 1355	
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL: 5.1
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S24103.01(01)
Generated on 05/21/2021

Report to

Attention: Alexis Crisp
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX:
Email: Alexis.Crisp@arcadis.com

Addtional Contacts: Brad Saunders

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S24103.01-S24103.15
Project: Racer PNC / 30075936 Task 5
Collected Date(s): 05/11/2021 - 05/12/2021
Submitted Date/Time: 05/12/2021 13:55
Sampled by: Seth Turner
P.O. #: 30075936 TASK 5

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
N/A	Not Applicable
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S24103.01	JS-SB-01_GW-051121	Groundwater	05/11/21 08:40
S24103.02	JS-SB-02_GW-051121	Groundwater	05/11/21 09:30
S24103.03	JS-SB-03_GW-051121	Groundwater	05/11/21 10:30
S24103.04	JS-SB-04_GW-051121	Groundwater	05/11/21 11:55
S24103.05	JS-SB-06_GW-051121	Groundwater	05/11/21 13:00
S24103.06	JS-SB-07_GW-051121	Groundwater	05/11/21 13:45
S24103.07	JS-SB-08_GW-051121	Groundwater	05/11/21 14:40
S24103.08	JS-SB-09_GW-051221	Groundwater	05/12/21 09:00
S24103.09	JS-SB-10_GW-051221	Groundwater	05/12/21 09:50
S24103.10	JS-SB-11_GW-051221	Groundwater	05/12/21 12:10
S24103.11	DUP-03_GW-051221	Groundwater	05/12/21 00:01
S24103.12	JS-SB-05_GW-051221	Groundwater	05/12/21 10:55
S24103.13	JS-SB-05_GW-051221 MS	Groundwater	05/12/21 10:55
S24103.14	JS-SB-05_GW-051221 MSD	Groundwater	05/12/21 10:55
S24103.15	DUP-04_GW-051221	Groundwater	05/12/21 00:01

Analytical Laboratory Report

Lab Sample ID: S24103.01
Sample Tag: JS-SB-01_GW-051121
Collected Date/Time: 05/11/2021 08:40
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/19/21 11:00	BML	
PNA Extraction	Completed	SW3510C	05/12/21 17:00	JWR	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/12/21 18:40, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 04:47, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.01 (continued)
Sample Tag: JS-SB-01_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 04:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.01 (continued)

Sample Tag: JS-SB-01_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 04:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.02
Sample Tag: JS-SB-02_GW-051121
Collected Date/Time: 05/11/2021 09:30
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/12/21 17:00	JWR	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/12/21 19:02, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.02 (continued)
Sample Tag: JS-SB-02_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.02 (continued)

Sample Tag: JS-SB-02_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.03
Sample Tag: JS-SB-03_GW-051121
Collected Date/Time: 05/11/2021 10:30
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/12/21 17:00	JWR	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/12/21 18:40, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.03 (continued)
Sample Tag: JS-SB-03_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.03 (continued)

Sample Tag: JS-SB-03_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.04
Sample Tag: JS-SB-04_GW-051121
Collected Date/Time: 05/11/2021 11:55
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 20:01, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:56, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.04 (continued)
Sample Tag: JS-SB-04_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.04 (continued)

Sample Tag: JS-SB-04_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 05:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.05
Sample Tag: JS-SB-06_GW-051121
Collected Date/Time: 05/11/2021 13:00
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 20:18, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	20	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	6	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 06:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	18	1		ug/L	1	71-43-2	
n-Butylbenzene	8	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	4	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.05 (continued)
Sample Tag: JS-SB-06_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 06:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	446	1		ug/L	1	100-41-4	E
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	24	5		ug/L	1	98-82-8	
2-Methylnaphthalene	13	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	58	5		ug/L	1	91-20-3	
n-Propylbenzene	82	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	72	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	453	1		ug/L	1	95-63-6	E
1,3,5-Trimethylbenzene	9	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	6	1		ug/L	1	108-88-3	

E-Concentration exceeds calibration range

Lab Sample ID: S24103.05 (continued)
Sample Tag: JS-SB-06_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 06:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	4	1		ug/L	1	95-47-6	
p,m-Xylene*	671	2		ug/L	1		E

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 05/19/21 18:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	500		ug/L	10	67-64-1	Y
Acrylonitrile	Not detected	20		ug/L	10	107-13-1	Y
2-Butanone (MEK)	Not detected	250		ug/L	10	78-93-3	Y
Benzene	20	10		ug/L	10	71-43-2	Y
n-Butylbenzene	Not detected	10		ug/L	10	104-51-8	Y
Bromobenzene	Not detected	10		ug/L	10	108-86-1	Y
Bromochloromethane	Not detected	10		ug/L	10	74-97-5	Y
Bromodichloromethane	Not detected	10		ug/L	10	75-27-4	Y
Bromoform	Not detected	10		ug/L	10	75-25-2	Y
Bromomethane	Not detected	50		ug/L	10	74-83-9	Y
sec-Butylbenzene	Not detected	10		ug/L	10	135-98-8	Y
tert-Butylbenzene	Not detected	10		ug/L	10	98-06-6	Y
Carbon disulfide	Not detected	50		ug/L	10	75-15-0	Y
Carbon tetrachloride	Not detected	10		ug/L	10	56-23-5	Y
Chlorobenzene	Not detected	10		ug/L	10	108-90-7	Y
Chloroethane	Not detected	50		ug/L	10	75-00-3	Y
Chloroform	Not detected	10		ug/L	10	67-66-3	Y
Chloromethane	Not detected	50		ug/L	10	74-87-3	Y
1,1-Dichloroethane	Not detected	10		ug/L	10	75-34-3	Y
1,1-Dichloroethene	Not detected	10		ug/L	10	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	50		ug/L	10	96-12-8	Y
1,2-Dibromoethane	Not detected	10		ug/L	10	106-93-4	Y
1,2-Dichlorobenzene	Not detected	10		ug/L	10	95-50-1	Y
1,2-Dichloroethane	Not detected	10		ug/L	10	107-06-2	Y
1,2-Dichloropropane	Not detected	10		ug/L	10	78-87-5	Y
1,3-Dichlorobenzene	Not detected	10		ug/L	10	541-73-1	Y
1,4-Dichlorobenzene	Not detected	10		ug/L	10	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	10		ug/L	10	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	10		ug/L	10	10061-01-5	Y
Dibromochloromethane	Not detected	50		ug/L	10	124-48-1	Y
Dibromomethane	Not detected	50		ug/L	10	74-95-3	Y
Dichlorodifluoromethane	Not detected	50		ug/L	10	75-71-8	Y
Diethyl ether	Not detected	100		ug/L	10	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	10		ug/L	10	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	10		ug/L	10	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	10		ug/L	10	110-57-6	Y
Ethylbenzene	400	10		ug/L	10	100-41-4	Y
2-Hexanone	Not detected	500		ug/L	10	591-78-6	Y
Hexachloroethane	Not detected	50		ug/L	10	67-72-1	Y
p-Isopropyltoluene	Not detected	50		ug/L	10	99-87-6	Y

E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.05 (continued)
Sample Tag: JS-SB-06_GW-051121

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 05/19/21 18:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Isopropylbenzene	Not detected	50		ug/L	10	98-82-8	Y
2-Methylnaphthalene	Not detected	50		ug/L	10	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	500		ug/L	10	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	50		ug/L	10	1634-04-4	Y
Methyl iodide	Not detected	10		ug/L	10	74-88-4	Y
Methylene chloride	Not detected	50		ug/L	10	75-09-2	Y
Naphthalene	Not detected	50		ug/L	10	91-20-3	Y
n-Propylbenzene	70	10		ug/L	10	103-65-1	Y
Styrene	Not detected	10		ug/L	10	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	10		ug/L	10	630-20-6	Y
1,1,1-Trichloroethane	Not detected	10		ug/L	10	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	10		ug/L	10	79-34-5	Y
1,1,2-Trichloroethane	Not detected	10		ug/L	10	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	50		ug/L	10	87-61-6	Y
1,2,3-Trichloropropane	Not detected	10		ug/L	10	96-18-4	Y
1,2,3-Trimethylbenzene	60	10		ug/L	10	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	50		ug/L	10	120-82-1	Y
1,2,4-Trimethylbenzene	340	10		ug/L	10	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	10		ug/L	10	108-67-8	Y
Tetrachloroethene	Not detected	10		ug/L	10	127-18-4	Y
Tetrahydrofuran*	Not detected	900		ug/L	10	109-99-9	Y
Toluene	Not detected	10		ug/L	10	108-88-3	Y
Trichloroethene	Not detected	10		ug/L	10	79-01-6	Y
Trichlorofluoromethane	Not detected	10		ug/L	10	75-69-4	Y
Vinyl chloride	Not detected	10		ug/L	10	75-01-4	Y
o-Xylene	Not detected	10		ug/L	10	95-47-6	Y
p,m-Xylene*	560	20		ug/L	10		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.06
Sample Tag: JS-SB-07_GW-051121
Collected Date/Time: 05/11/2021 13:45
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 20:35, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 06:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.06 (continued)
Sample Tag: JS-SB-07_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 06:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.06 (continued)

Sample Tag: JS-SB-07_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 06:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.07
Sample Tag: JS-SB-08_GW-051121
Collected Date/Time: 05/11/2021 14:40
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 20:53, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:05, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.07 (continued)
Sample Tag: JS-SB-08_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.07 (continued)

Sample Tag: JS-SB-08_GW-051121

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.08
Sample Tag: JS-SB-09_GW-051221
Collected Date/Time: 05/12/2021 09:00
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 21:10, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	143	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	42	5		ug/L	2	91-57-6	
1-Methylnaphthalene	19	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 08:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	1,000		ug/L	20	67-64-1	Y
Acrylonitrile	Not detected	40		ug/L	20	107-13-1	Y
2-Butanone (MEK)	Not detected	500		ug/L	20	78-93-3	Y
Benzene	690	20		ug/L	20	71-43-2	Y
n-Butylbenzene	Not detected	20		ug/L	20	104-51-8	Y
Bromobenzene	Not detected	20		ug/L	20	108-86-1	Y
Bromochloromethane	Not detected	20		ug/L	20	74-97-5	Y
Bromodichloromethane	Not detected	20		ug/L	20	75-27-4	Y
Bromoform	Not detected	20		ug/L	20	75-25-2	Y
Bromomethane	Not detected	100		ug/L	20	74-83-9	Y
sec-Butylbenzene	Not detected	20		ug/L	20	135-98-8	Y
tert-Butylbenzene	Not detected	20		ug/L	20	98-06-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.08 (continued)
Sample Tag: JS-SB-09_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 08:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	Not detected	100		ug/L	20	75-15-0	Y
Carbon tetrachloride	Not detected	20		ug/L	20	56-23-5	Y
Chlorobenzene	Not detected	20		ug/L	20	108-90-7	Y
Chloroethane	Not detected	100		ug/L	20	75-00-3	Y
Chloroform	Not detected	20		ug/L	20	67-66-3	Y
Chloromethane	Not detected	100		ug/L	20	74-87-3	Y
1,1-Dichloroethane	Not detected	20		ug/L	20	75-34-3	Y
1,1-Dichloroethene	Not detected	20		ug/L	20	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	100		ug/L	20	96-12-8	Y
1,2-Dibromoethane	Not detected	20		ug/L	20	106-93-4	Y
1,2-Dichlorobenzene	Not detected	20		ug/L	20	95-50-1	Y
1,2-Dichloroethane	Not detected	20		ug/L	20	107-06-2	Y
1,2-Dichloropropane	Not detected	20		ug/L	20	78-87-5	Y
1,3-Dichlorobenzene	Not detected	20		ug/L	20	541-73-1	Y
1,4-Dichlorobenzene	Not detected	20		ug/L	20	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	20		ug/L	20	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-01-5	Y
Dibromochloromethane	Not detected	100		ug/L	20	124-48-1	Y
Dibromomethane	Not detected	100		ug/L	20	74-95-3	Y
Dichlorodifluoromethane	Not detected	100		ug/L	20	75-71-8	Y
Diethyl ether	Not detected	200		ug/L	20	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	20		ug/L	20	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	20		ug/L	20	110-57-6	Y
Ethylbenzene	1,810	20		ug/L	20	100-41-4	Y
2-Hexanone	Not detected	1,000		ug/L	20	591-78-6	Y
Hexachloroethane	Not detected	100		ug/L	20	67-72-1	Y
p-Isopropyltoluene	Not detected	100		ug/L	20	99-87-6	Y
Isopropylbenzene	Not detected	100		ug/L	20	98-82-8	Y
2-Methylnaphthalene	Not detected	100		ug/L	20	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	1,000		ug/L	20	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	100		ug/L	20	1634-04-4	Y
Methyl iodide	Not detected	20		ug/L	20	74-88-4	Y
Methylene chloride	Not detected	100		ug/L	20	75-09-2	Y
Naphthalene	200	100		ug/L	20	91-20-3	Y
n-Propylbenzene	170	20		ug/L	20	103-65-1	Y
Styrene	Not detected	20		ug/L	20	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	20		ug/L	20	630-20-6	Y
1,1,1-Trichloroethane	Not detected	20		ug/L	20	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	20		ug/L	20	79-34-5	Y
1,1,2-Trichloroethane	Not detected	20		ug/L	20	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	100		ug/L	20	87-61-6	Y
1,2,3-Trichloropropane	Not detected	20		ug/L	20	96-18-4	Y
1,2,3-Trimethylbenzene	460	20		ug/L	20	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	100		ug/L	20	120-82-1	Y
1,2,4-Trimethylbenzene	1,400	20		ug/L	20	95-63-6	Y
1,3,5-Trimethylbenzene	420	20		ug/L	20	108-67-8	Y
Tetrachloroethene	Not detected	20		ug/L	20	127-18-4	Y
Tetrahydrofuran*	Not detected	1,800		ug/L	20	109-99-9	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.08 (continued)
Sample Tag: JS-SB-09_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 08:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Toluene	190	20		ug/L	20	108-88-3	Y
Trichloroethene	Not detected	20		ug/L	20	79-01-6	Y
Trichlorofluoromethane	Not detected	20		ug/L	20	75-69-4	Y
Vinyl chloride	Not detected	20		ug/L	20	75-01-4	Y
o-Xylene	160	20		ug/L	20	95-47-6	Y
p,m-Xylene*	6,020	40		ug/L	20		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.09
Sample Tag: JS-SB-10_GW-051221
Collected Date/Time: 05/12/2021 09:50
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 21:27, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	S
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	S
Anthracene	Not detected	5		ug/L	2	120-12-7	S
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	S
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	S
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	S
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	S
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	S
Chrysene	Not detected	1		ug/L	2	218-01-9	S
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	S
Fluoranthene	Not detected	1		ug/L	2	206-44-0	S
Fluorene	Not detected	5		ug/L	2	86-73-7	S
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	S
Naphthalene	Not detected	5		ug/L	2	91-20-3	S
Phenanthrene	Not detected	2		ug/L	2	85-01-8	S
Pyrene	Not detected	5		ug/L	2	129-00-0	S
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	S
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	S

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	

S-Surrogate recovery outside of control limits

Lab Sample ID: S24103.09 (continued)
Sample Tag: JS-SB-10_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	4	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	

Lab Sample ID: S24103.09 (continued)
Sample Tag: JS-SB-10_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.10
Sample Tag: JS-SB-11_GW-051221
Collected Date/Time: 05/12/2021 12:10
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/19/21 11:00	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 21:44, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 05:10, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.10 (continued)
Sample Tag: JS-SB-11_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 05:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.10 (continued)

Sample Tag: JS-SB-11_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 05:10, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.11
Sample Tag: DUP-03_GW-051221
Collected Date/Time: 05/12/2021 00:01
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/18/21 10:00	TJT	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 22:01, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	Not detected	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	Not detected	5		ug/L	2	91-57-6	
1-Methylnaphthalene	Not detected	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:52, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	

Lab Sample ID: S24103.11 (continued)
Sample Tag: DUP-03_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	4	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	

Lab Sample ID: S24103.11 (continued)

Sample Tag: DUP-03_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/18/21 07:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S24103.12
Sample Tag: JS-SB-05_GW-051221
Collected Date/Time: 05/12/2021 10:55
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/19/21 15:00	TTV	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 20:26, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	193	5		ug/L	2	91-20-3	
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	89	5		ug/L	2	91-57-6	
1-Methylnaphthalene	46	5		ug/L	2	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 16:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	292	50		ug/L	1	67-64-1	E
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	57	25		ug/L	1	78-93-3	
Benzene	1,220	1		ug/L	1	71-43-2	E
n-Butylbenzene	125	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	6	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	

E-Concentration exceeds calibration range

Lab Sample ID: S24103.12 (continued)
Sample Tag: JS-SB-05_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 16:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	894	1		ug/L	1	100-41-4	E
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	14	5		ug/L	1	99-87-6	
Isopropylbenzene	36	5		ug/L	1	98-82-8	
2-Methylnaphthalene	199	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	528	5		ug/L	1	91-20-3	E
n-Propylbenzene	137	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	370	1		ug/L	1	526-73-8	E
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	1,021	1		ug/L	1	95-63-6	E
1,3,5-Trimethylbenzene	340	1		ug/L	1	108-67-8	E
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	

E-Concentration exceeds calibration range

Lab Sample ID: S24103.12 (continued)
Sample Tag: JS-SB-05_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 16:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Toluene	170	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	103	1		ug/L	1	95-47-6	
p,m-Xylene*	2,736	2		ug/L	1		E

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 05/17/21 17:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	2,500		ug/L	50	67-64-1	Y
Acrylonitrile	Not detected	100		ug/L	50	107-13-1	Y
2-Butanone (MEK)	Not detected	1,300		ug/L	50	78-93-3	Y
Benzene	1,300	50		ug/L	50	71-43-2	Y
n-Butylbenzene	110	50		ug/L	50	104-51-8	Y
Bromobenzene	Not detected	50		ug/L	50	108-86-1	Y
Bromochloromethane	Not detected	50		ug/L	50	74-97-5	Y
Bromodichloromethane	Not detected	50		ug/L	50	75-27-4	Y
Bromoform	Not detected	50		ug/L	50	75-25-2	Y
Bromomethane	Not detected	300		ug/L	50	74-83-9	Y
sec-Butylbenzene	Not detected	50		ug/L	50	135-98-8	Y
tert-Butylbenzene	Not detected	50		ug/L	50	98-06-6	Y
Carbon disulfide	Not detected	300		ug/L	50	75-15-0	Y
Carbon tetrachloride	Not detected	50		ug/L	50	56-23-5	Y
Chlorobenzene	Not detected	50		ug/L	50	108-90-7	Y
Chloroethane	Not detected	300		ug/L	50	75-00-3	Y
Chloroform	Not detected	50		ug/L	50	67-66-3	Y
Chloromethane	Not detected	300		ug/L	50	74-87-3	Y
1,1-Dichloroethane	Not detected	50		ug/L	50	75-34-3	Y
1,1-Dichloroethene	Not detected	50		ug/L	50	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	300		ug/L	50	96-12-8	Y
1,2-Dibromoethane	Not detected	50		ug/L	50	106-93-4	Y
1,2-Dichlorobenzene	Not detected	50		ug/L	50	95-50-1	Y
1,2-Dichloroethane	Not detected	50		ug/L	50	107-06-2	Y
1,2-Dichloropropane	Not detected	50		ug/L	50	78-87-5	Y
1,3-Dichlorobenzene	Not detected	50		ug/L	50	541-73-1	Y
1,4-Dichlorobenzene	Not detected	50		ug/L	50	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	50		ug/L	50	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	50		ug/L	50	10061-01-5	Y
Dibromochloromethane	Not detected	300		ug/L	50	124-48-1	Y
Dibromomethane	Not detected	300		ug/L	50	74-95-3	Y
Dichlorodifluoromethane	Not detected	300		ug/L	50	75-71-8	Y
Diethyl ether	Not detected	500		ug/L	50	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	50		ug/L	50	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	50		ug/L	50	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	50		ug/L	50	110-57-6	Y
Ethylbenzene	1,090	50		ug/L	50	100-41-4	Y
2-Hexanone	Not detected	2,500		ug/L	50	591-78-6	Y
Hexachloroethane	Not detected	300		ug/L	50	67-72-1	Y

E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.12 (continued)
Sample Tag: JS-SB-05_GW-051221

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 05/17/21 17:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p-Isopropyltoluene	Not detected	300		ug/L	50	99-87-6	Y
Isopropylbenzene	Not detected	300		ug/L	50	98-82-8	Y
2-Methylnaphthalene	Not detected	300		ug/L	50	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	2,500		ug/L	50	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/L	50	1634-04-4	Y
Methyl iodide	Not detected	50		ug/L	50	74-88-4	Y
Methylene chloride	Not detected	300		ug/L	50	75-09-2	Y
Naphthalene	500	300		ug/L	50	91-20-3	Y
n-Propylbenzene	120	50		ug/L	50	103-65-1	Y
Styrene	Not detected	50		ug/L	50	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	50		ug/L	50	630-20-6	Y
1,1,1-Trichloroethane	Not detected	50		ug/L	50	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	50		ug/L	50	79-34-5	Y
1,1,2-Trichloroethane	Not detected	50		ug/L	50	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	300		ug/L	50	87-61-6	Y
1,2,3-Trichloropropane	Not detected	50		ug/L	50	96-18-4	Y
1,2,3-Trimethylbenzene	320	50		ug/L	50	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	300		ug/L	50	120-82-1	Y
1,2,4-Trimethylbenzene	930	50		ug/L	50	95-63-6	Y
1,3,5-Trimethylbenzene	300	50		ug/L	50	108-67-8	Y
Tetrachloroethene	Not detected	50		ug/L	50	127-18-4	Y
Tetrahydrofuran*	Not detected	4,500		ug/L	50	109-99-9	Y
Toluene	160	50		ug/L	50	108-88-3	Y
Trichloroethene	Not detected	50		ug/L	50	79-01-6	Y
Trichlorofluoromethane	Not detected	50		ug/L	50	75-69-4	Y
Vinyl chloride	Not detected	50		ug/L	50	75-01-4	Y
o-Xylene	100	50		ug/L	50	95-47-6	Y
p,m-Xylene*	4,000	100		ug/L	50		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.13
Sample Tag: JS-SB-05_GW-051221 MS
Collected Date/Time: 05/12/2021 10:55
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/19/21 15:00	TTV	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 20:48, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	41	5		ug/L	2	83-32-9	1
Acenaphthylene	41	5		ug/L	2	208-96-8	1
Anthracene	54	5		ug/L	2	120-12-7	1
Benzo(a)anthracene	43	1		ug/L	2	56-55-3	1
Benzo(a)pyrene	45	1		ug/L	2	50-32-8	1
Benzo(b)fluoranthene	41	1		ug/L	2	205-99-2	1
Benzo(k)fluoranthene	44	1		ug/L	2	207-08-9	1
Benzo(ghi)perylene	41	1		ug/L	2	191-24-2	1
Chrysene	45	1		ug/L	2	218-01-9	1
Dibenzo(ah)anthracene	43	2		ug/L	2	53-70-3	1
Fluoranthene	44	1		ug/L	2	206-44-0	1
Fluorene	45	5		ug/L	2	86-73-7	1
Indeno(1,2,3-cd)pyrene	42	2		ug/L	2	193-39-5	1
Naphthalene	236	5		ug/L	2	91-20-3	1E
Phenanthrene	45	2		ug/L	2	85-01-8	1
Pyrene	43	5		ug/L	2	129-00-0	1
2-Methylnaphthalene	116	5		ug/L	2	91-57-6	1
1-Methylnaphthalene	84	5		ug/L	2	90-12-0	1

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 12:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	311	50		ug/L	1	67-64-1	2E
Acrylonitrile	97	2		ug/L	1	107-13-1	2
2-Butanone (MEK)	92	25		ug/L	1	78-93-3	2
Benzene	1,137	1		ug/L	1	71-43-2	2E
n-Butylbenzene	83	1		ug/L	1	104-51-8	2
Bromobenzene	47	1		ug/L	1	108-86-1	2
Bromochloromethane	46	1		ug/L	1	74-97-5	2
Bromodichloromethane	52	1		ug/L	1	75-27-4	2
Bromoform	47	1		ug/L	1	75-25-2	2
Bromomethane	51	5		ug/L	1	74-83-9	2

1-Sample spiked at 0.050 mg/l
E-Concentration exceeds calibration range
2-Spiked at 50ug/L

Lab Sample ID: S24103.13 (continued)
Sample Tag: JS-SB-05_GW-051221 MS

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 12:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	57	1		ug/L	1	135-98-8	1
tert-Butylbenzene	403	1		ug/L	1	98-06-6	1
Carbon disulfide	49	5		ug/L	1	75-15-0	1
Carbon tetrachloride	49	1		ug/L	1	56-23-5	1
Chlorobenzene	50	1		ug/L	1	108-90-7	1
Chloroethane	51	5		ug/L	1	75-00-3	1
Chloroform	59	1		ug/L	1	67-66-3	1
Chloromethane	62	5		ug/L	1	74-87-3	1
1,1-Dichloroethane	54	1		ug/L	1	75-34-3	1
1,1-Dichloroethene	49	1		ug/L	1	75-35-4	1
1,2-Dibromo-3-chloropropane	49	5		ug/L	1	96-12-8	1
1,2-Dibromoethane	49	1		ug/L	1	106-93-4	1
1,2-Dichlorobenzene	51	1		ug/L	1	95-50-1	1
1,2-Dichloroethane	88	1		ug/L	1	107-06-2	1
1,2-Dichloropropane	61	1		ug/L	1	78-87-5	1
1,3-Dichlorobenzene	52	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	52	1		ug/L	1	106-46-7	1
cis-1,2-Dichloroethene	47	1		ug/L	1	156-59-2	1
cis-1,3-Dichloropropene	52	1		ug/L	1	10061-01-5	1
Dibromochloromethane	49	5		ug/L	1	124-48-1	1
Dibromomethane	47	5		ug/L	1	74-95-3	1
Dichlorodifluoromethane	42	5		ug/L	1	75-71-8	1
Diethyl ether	51	10		ug/L	1	60-29-7	1
trans-1,2-Dichloroethene	51	1		ug/L	1	156-60-5	1
trans-1,3-Dichloropropene	53	1		ug/L	1	10061-02-6	1
trans-1,4-Dichloro-2-butene	48	1		ug/L	1	110-57-6	1
Ethylbenzene	850	1		ug/L	1	100-41-4	1E
2-Hexanone	55	50		ug/L	1	591-78-6	1
Hexachloroethane	50	5		ug/L	1	67-72-1	1
p-Isopropyltoluene	55	5		ug/L	1	99-87-6	1
Isopropylbenzene	81	5		ug/L	1	98-82-8	1
2-Methylnaphthalene	216	5		ug/L	1	91-57-6	1E
4-Methyl-2-pentanone (MIBK)	53	50		ug/L	1	108-10-1	1
tert-Methyl butyl ether (MTBE)	46	5		ug/L	1	1634-04-4	1
Methyl iodide	48	1		ug/L	1	74-88-4	1
Methylene chloride	52	5		ug/L	1	75-09-2	1
Naphthalene	518	5		ug/L	1	91-20-3	1E
n-Propylbenzene	175	1		ug/L	1	103-65-1	1
Styrene	53	1		ug/L	1	100-42-5	1
1,1,1,2-Tetrachloroethane	50	1		ug/L	1	630-20-6	1
1,1,1-Trichloroethane	49	1		ug/L	1	71-55-6	1
1,1,2,2-Tetrachloroethane	48	1		ug/L	1	79-34-5	1
1,1,2-Trichloroethane	56	1		ug/L	1	79-00-5	1
1,2,3-Trichlorobenzene	43	5		ug/L	1	87-61-6	1
1,2,3-Trichloropropane	48	1		ug/L	1	96-18-4	1
1,2,3-Trimethylbenzene	385	1		ug/L	1	526-73-8	1E
1,2,4-Trichlorobenzene	46	5		ug/L	1	120-82-1	1
1,2,4-Trimethylbenzene	963	1		ug/L	1	95-63-6	1E

1-Spiked at 50ug/L
E-Concentration exceeds calibration range

Lab Sample ID: S24103.13 (continued)
Sample Tag: JS-SB-05_GW-051221 MS

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 12:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	365	1		ug/L	1	108-67-8	1E
Tetrachloroethene	45	1		ug/L	1	127-18-4	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Toluene	207	1		ug/L	1	108-88-3	1E
Trichloroethene	52	1		ug/L	1	79-01-6	1
Trichlorofluoromethane	50	1		ug/L	1	75-69-4	1
Vinyl chloride	53	1		ug/L	1	75-01-4	1
o-Xylene	144	1		ug/L	1	95-47-6	1
p,m-Xylene*	2,594	2		ug/L	1		1E

1-Spiked at 50ug/L E-Concentration exceeds calibration range

Lab Sample ID: S24103.14
Sample Tag: JS-SB-05_GW-051221 MSD
Collected Date/Time: 05/12/2021 10:55
Matrix: Groundwater
COC Reference: 137669

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/19/21 15:00	TTV	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 21:10, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	43	5		ug/L	2	83-32-9	1
Acenaphthylene	42	5		ug/L	2	208-96-8	1
Anthracene	55	5		ug/L	2	120-12-7	1
Benzo(a)anthracene	44	1		ug/L	2	56-55-3	1
Benzo(a)pyrene	45	1		ug/L	2	50-32-8	1
Benzo(b)fluoranthene	43	1		ug/L	2	205-99-2	1
Benzo(k)fluoranthene	44	1		ug/L	2	207-08-9	1
Benzo(ghi)perylene	38	1		ug/L	2	191-24-2	1
Chrysene	46	1		ug/L	2	218-01-9	1
Dibenzo(ah)anthracene	41	2		ug/L	2	53-70-3	1
Fluoranthene	45	1		ug/L	2	206-44-0	1
Fluorene	46	5		ug/L	2	86-73-7	1
Indeno(1,2,3-cd)pyrene	41	2		ug/L	2	193-39-5	1
Naphthalene	209	5		ug/L	2	91-20-3	1E
Phenanthrene	46	2		ug/L	2	85-01-8	1
Pyrene	44	5		ug/L	2	129-00-0	1
2-Methylnaphthalene	131	5		ug/L	2	91-57-6	1
1-Methylnaphthalene	90	5		ug/L	2	90-12-0	1

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 13:00, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	304	50		ug/L	1	67-64-1	2E
Acrylonitrile	93	2		ug/L	1	107-13-1	2
2-Butanone (MEK)	90	25		ug/L	1	78-93-3	2
Benzene	1,108	1		ug/L	1	71-43-2	2E
n-Butylbenzene	80	1		ug/L	1	104-51-8	2
Bromobenzene	47	1		ug/L	1	108-86-1	2
Bromochloromethane	46	1		ug/L	1	74-97-5	2
Bromodichloromethane	49	1		ug/L	1	75-27-4	2
Bromoform	45	1		ug/L	1	75-25-2	2
Bromomethane	49	5		ug/L	1	74-83-9	2

1-Sample spiked at 0.050 mg/l
E-Concentration exceeds calibration range
2-Spiked at 50ug/L

Lab Sample ID: S24103.14 (continued)
Sample Tag: JS-SB-05_GW-051221 MSD

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 13:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	55	1		ug/L	1	135-98-8	1
tert-Butylbenzene	40	1		ug/L	1	98-06-6	1
Carbon disulfide	46	5		ug/L	1	75-15-0	1
Carbon tetrachloride	46	1		ug/L	1	56-23-5	1
Chlorobenzene	48	1		ug/L	1	108-90-7	1
Chloroethane	50	5		ug/L	1	75-00-3	1
Chloroform	58	1		ug/L	1	67-66-3	1
Chloromethane	63	5		ug/L	1	74-87-3	1
1,1-Dichloroethane	52	1		ug/L	1	75-34-3	1
1,1-Dichloroethene	47	1		ug/L	1	75-35-4	1
1,2-Dibromo-3-chloropropane	48	5		ug/L	1	96-12-8	1
1,2-Dibromoethane	48	1		ug/L	1	106-93-4	1
1,2-Dichlorobenzene	50	1		ug/L	1	95-50-1	1
1,2-Dichloroethane	85	1		ug/L	1	107-06-2	1
1,2-Dichloropropane	59	1		ug/L	1	78-87-5	1
1,3-Dichlorobenzene	51	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	51	1		ug/L	1	106-46-7	1
cis-1,2-Dichloroethene	46	1		ug/L	1	156-59-2	1
cis-1,3-Dichloropropene	50	1		ug/L	1	10061-01-5	1
Dibromochloromethane	48	5		ug/L	1	124-48-1	1
Dibromomethane	46	5		ug/L	1	74-95-3	1
Dichlorodifluoromethane	39	5		ug/L	1	75-71-8	1
Diethyl ether	49	10		ug/L	1	60-29-7	1
trans-1,2-Dichloroethene	49	1		ug/L	1	156-60-5	1
trans-1,3-Dichloropropene	51	1		ug/L	1	10061-02-6	1
trans-1,4-Dichloro-2-butene	48	1		ug/L	1	110-57-6	1
Ethylbenzene	834	1		ug/L	1	100-41-4	1E
2-Hexanone	55	50		ug/L	1	591-78-6	1
Hexachloroethane	48	5		ug/L	1	67-72-1	1
p-Isopropyltoluene	54	5		ug/L	1	99-87-6	1
Isopropylbenzene	79	5		ug/L	1	98-82-8	1
2-Methylnaphthalene	216	5		ug/L	1	91-57-6	1E
4-Methyl-2-pentanone (MIBK)	52	50		ug/L	1	108-10-1	1
tert-Methyl butyl ether (MTBE)	45	5		ug/L	1	1634-04-4	1
Methyl iodide	47	1		ug/L	1	74-88-4	1
Methylene chloride	50	5		ug/L	1	75-09-2	1
Naphthalene	503	5		ug/L	1	91-20-3	1E
n-Propylbenzene	170	1		ug/L	1	103-65-1	1
Styrene	52	1		ug/L	1	100-42-5	1
1,1,1,2-Tetrachloroethane	48	1		ug/L	1	630-20-6	1
1,1,1-Trichloroethane	46	1		ug/L	1	71-55-6	1
1,1,2,2-Tetrachloroethane	48	1		ug/L	1	79-34-5	1
1,1,2-Trichloroethane	54	1		ug/L	1	79-00-5	1
1,2,3-Trichlorobenzene	41	5		ug/L	1	87-61-6	1
1,2,3-Trichloropropane	46	1		ug/L	1	96-18-4	1
1,2,3-Trimethylbenzene	374	1		ug/L	1	526-73-8	1E
1,2,4-Trichlorobenzene	44	5		ug/L	1	120-82-1	1
1,2,4-Trimethylbenzene	944	1		ug/L	1	95-63-6	1E

1-Spiked at 50ug/L
E-Concentration exceeds calibration range

Lab Sample ID: S24103.14 (continued)
Sample Tag: JS-SB-05_GW-051221 MSD

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/17/21 13:00, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3,5-Trimethylbenzene	359	1		ug/L	1	108-67-8	1E
Tetrachloroethene	43	1		ug/L	1	127-18-4	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Toluene	201	1		ug/L	1	108-88-3	1E
Trichloroethene	50	1		ug/L	1	79-01-6	1
Trichlorofluoromethane	48	1		ug/L	1	75-69-4	1
Vinyl chloride	51	1		ug/L	1	75-01-4	1
o-Xylene	140	1		ug/L	1	95-47-6	1
p,m-Xylene*	2,566	2		ug/L	1		1E

1-Spiked at 50ug/L E-Concentration exceeds calibration range

Lab Sample ID: S24103.15
Sample Tag: DUP-04_GW-051221
Collected Date/Time: 05/12/2021 00:01
Matrix: Groundwater
COC Reference: 137670

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/18/21 10:30	BML	
PNA Extraction	Completed	SW3510C	05/19/21 15:00	TTV	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon, Method: SW8270D, Run Date: 05/19/21 21:32, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	2	83-32-9	
Acenaphthylene	Not detected	5		ug/L	2	208-96-8	
Anthracene	Not detected	5		ug/L	2	120-12-7	
Benzo(a)anthracene	Not detected	1		ug/L	2	56-55-3	
Benzo(a)pyrene	Not detected	1		ug/L	2	50-32-8	
Benzo(b)fluoranthene	Not detected	1		ug/L	2	205-99-2	
Benzo(k)fluoranthene	Not detected	1		ug/L	2	207-08-9	
Benzo(ghi)perylene	Not detected	1		ug/L	2	191-24-2	
Chrysene	Not detected	1		ug/L	2	218-01-9	
Dibenzo(ah)anthracene	Not detected	2		ug/L	2	53-70-3	
Fluoranthene	Not detected	1		ug/L	2	206-44-0	
Fluorene	Not detected	5		ug/L	2	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	2	193-39-5	
Naphthalene	207	5		ug/L	2	91-20-3	E
Phenanthrene	Not detected	2		ug/L	2	85-01-8	
Pyrene	Not detected	5		ug/L	2	129-00-0	
2-Methylnaphthalene	82	5		ug/L	2	91-57-6	
1-Methylnaphthalene	46	5		ug/L	2	90-12-0	

Polynuclear Aromatic Hydrocarbon (Replicate 01), Method: SW8270D, Run Date: 05/20/21 22:22, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	5		ug/L	4	83-32-9	
Acenaphthylene	Not detected	5		ug/L	4	208-96-8	
Anthracene	Not detected	5		ug/L	4	120-12-7	
Benzo(a)anthracene	Not detected	2		ug/L	4	56-55-3	Y
Benzo(a)pyrene	Not detected	2		ug/L	4	50-32-8	Y
Benzo(b)fluoranthene	Not detected	2		ug/L	4	205-99-2	Y
Benzo(k)fluoranthene	Not detected	2		ug/L	4	207-08-9	Y
Benzo(ghi)perylene	Not detected	2		ug/L	4	191-24-2	Y
Chrysene	Not detected	2		ug/L	4	218-01-9	Y
Dibenzo(ah)anthracene	Not detected	2		ug/L	4	53-70-3	
Fluoranthene	Not detected	2		ug/L	4	206-44-0	Y
Fluorene	Not detected	5		ug/L	4	86-73-7	

E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.15 (continued)
Sample Tag: DUP-04_GW-051221

Polynuclear Aromatic Hydrocarbon (Replicate 01), Method: SW8270D, Run Date: 05/20/21 22:22, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Indeno(1,2,3-cd)pyrene	Not detected	2		ug/L	4	193-39-5	
Naphthalene	181	5		ug/L	4	91-20-3	
Phenanthrene	Not detected	2		ug/L	4	85-01-8	
Pyrene	Not detected	5		ug/L	4	129-00-0	
2-Methylnaphthalene	71	5		ug/L	4	91-57-6	
1-Methylnaphthalene	38	5		ug/L	4	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 08:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	2,500		ug/L	50	67-64-1	Y
Acrylonitrile	Not detected	100		ug/L	50	107-13-1	Y
2-Butanone (MEK)	Not detected	1,300		ug/L	50	78-93-3	Y
Benzene	1,280	50		ug/L	50	71-43-2	Y
n-Butylbenzene	Not detected	50		ug/L	50	104-51-8	Y
Bromobenzene	Not detected	50		ug/L	50	108-86-1	Y
Bromochloromethane	Not detected	50		ug/L	50	74-97-5	Y
Bromodichloromethane	Not detected	50		ug/L	50	75-27-4	Y
Bromoform	Not detected	50		ug/L	50	75-25-2	Y
Bromomethane	Not detected	300		ug/L	50	74-83-9	Y
sec-Butylbenzene	Not detected	50		ug/L	50	135-98-8	Y
tert-Butylbenzene	Not detected	50		ug/L	50	98-06-6	Y
Carbon disulfide	Not detected	300		ug/L	50	75-15-0	Y
Carbon tetrachloride	Not detected	50		ug/L	50	56-23-5	Y
Chlorobenzene	Not detected	50		ug/L	50	108-90-7	Y
Chloroethane	Not detected	300		ug/L	50	75-00-3	Y
Chloroform	Not detected	50		ug/L	50	67-66-3	Y
Chloromethane	Not detected	300		ug/L	50	74-87-3	Y
1,1-Dichloroethane	Not detected	50		ug/L	50	75-34-3	Y
1,1-Dichloroethene	Not detected	50		ug/L	50	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	300		ug/L	50	96-12-8	Y
1,2-Dibromoethane	Not detected	50		ug/L	50	106-93-4	Y
1,2-Dichlorobenzene	Not detected	50		ug/L	50	95-50-1	Y
1,2-Dichloroethane	Not detected	50		ug/L	50	107-06-2	Y
1,2-Dichloropropane	Not detected	50		ug/L	50	78-87-5	Y
1,3-Dichlorobenzene	Not detected	50		ug/L	50	541-73-1	Y
1,4-Dichlorobenzene	Not detected	50		ug/L	50	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	50		ug/L	50	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	50		ug/L	50	10061-01-5	Y
Dibromochloromethane	Not detected	300		ug/L	50	124-48-1	Y
Dibromomethane	Not detected	300		ug/L	50	74-95-3	Y
Dichlorodifluoromethane	Not detected	300		ug/L	50	75-71-8	Y
Diethyl ether	Not detected	500		ug/L	50	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	50		ug/L	50	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	50		ug/L	50	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	50		ug/L	50	110-57-6	Y
Ethylbenzene	1,040	50		ug/L	50	100-41-4	Y
2-Hexanone	Not detected	2,500		ug/L	50	591-78-6	Y
Hexachloroethane	Not detected	300		ug/L	50	67-72-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S24103.15 (continued)
Sample Tag: DUP-04_GW-051221

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/19/21 08:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p-Isopropyltoluene	Not detected	300		ug/L	50	99-87-6	Y
Isopropylbenzene	Not detected	300		ug/L	50	98-82-8	Y
2-Methylnaphthalene	Not detected	300		ug/L	50	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	2,500		ug/L	50	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/L	50	1634-04-4	Y
Methyl iodide	Not detected	50		ug/L	50	74-88-4	Y
Methylene chloride	Not detected	300		ug/L	50	75-09-2	Y
Naphthalene	500	300		ug/L	50	91-20-3	Y
n-Propylbenzene	110	50		ug/L	50	103-65-1	Y
Styrene	Not detected	50		ug/L	50	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	50		ug/L	50	630-20-6	Y
1,1,1-Trichloroethane	Not detected	50		ug/L	50	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	50		ug/L	50	79-34-5	Y
1,1,2-Trichloroethane	Not detected	50		ug/L	50	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	300		ug/L	50	87-61-6	Y
1,2,3-Trichloropropane	Not detected	50		ug/L	50	96-18-4	Y
1,2,3-Trimethylbenzene	300	50		ug/L	50	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	300		ug/L	50	120-82-1	Y
1,2,4-Trimethylbenzene	800	50		ug/L	50	95-63-6	Y
1,3,5-Trimethylbenzene	260	50		ug/L	50	108-67-8	Y
Tetrachloroethene	Not detected	50		ug/L	50	127-18-4	Y
Tetrahydrofuran*	Not detected	4,500		ug/L	50	109-99-9	Y
Toluene	190	50		ug/L	50	108-88-3	Y
Trichloroethene	Not detected	50		ug/L	50	79-01-6	Y
Trichlorofluoromethane	Not detected	50		ug/L	50	75-69-4	Y
Vinyl chloride	Not detected	50		ug/L	50	75-01-4	Y
o-Xylene	90	50		ug/L	50	95-47-6	Y
p,m-Xylene*	3,700	100		ug/L	50		Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories Login Checklist

Lab Set ID: S24103
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: Racer PNC / 30075936 Task 5
Submitted: 05/12/2021 13:55 Login User: REJ

Attention: Alexis Crisp
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: n/a FAX:
Email: Alexis.Crisp@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.1
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[X] No	[ ] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 1 OF 2

137669

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Brad Saunders
COMPANY: Arcadis
ADDRESS: 28550 Cabot drive
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30075936 TASK 5
E-MAIL ADDRESS: lexi.crisp@arcadis.com; brad.saunders@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Raer PNC / 30075936 TASK 5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PAHs	Special Instructions
24103.01	5/11/21	840	JS-SB-01_GW-051121	GW	4	1	3						X	X	
.02	5/11/21	930	JS-SB-02_GW-051121	GW	4	1	3								
.03	5/11/21	1030	JS-SB-03_GW-051121	GW	4	1	3								
.04	5/11/21	1155	JS-SB-04_GW-051121	GW	4	1	3								
.05	5/11/21	1300	JS-SB-06_GW-051121	GW	4	1	3								
.06	5/11/21	1345	JS-SB-07_GW-051121	GW	4	1	3								
.07	5/11/21	1440	JS-SB-08_GW-051121	GW	4	1	3								
.08	5/12/21	900	JS-SB-09_GW-051221	GW	4	1	3								
.09	5/12/21	950	JS-SB-10_GW-051221	GW	4	1	3								
.10	5/12/21	1210	JS-SB-11_GW-051221	GW	4	1	3								
.11	5/12/21	—	DUP-03_GW-051221	GW	4	1	3								
.13.14.12	5/12/21	1055	JS-SB-05_GW-051221	GW	12	3	9								MS/MSD

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
Seth Turner / Arcadis		5/12/21	1355
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		5/12/21	1855
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 5.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 2

137670

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Brad Saunders
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30075936 Task 5
E-MAIL ADDRESS: lexi.crisp@arcadis.com, Brad.Saunders@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Racer INC / 30075936 Task 5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PAHs
29103.15	5/12/21	—	DUP-04_GW-051221	GW	4	1	3						X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Seth Turner / Arcadis ☒ Sampler DATE: 5/12/21 TIME: 1355
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 5/12/21 TIME: 1355
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL: 5.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S31693.01(01)
Generated on 01/07/2022

Report to

Attention: Alexis Crisp
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX:
Email: Alexis.Crisp@arcadis.com

Addtional Contacts: Brad Saunders

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S31693.01-S31693.10
Project: 30075936.00005 / Racer PNC GWS
Collected Date(s): 12/28/2021 - 12/29/2021
Submitted Date/Time: 12/30/2021 10:45
Sampled by: Gary Schafer
P.O. #: 30075936.00005

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
N/A	Not Applicable
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S31693.01	Trip Blank	Water	12/29/21 00:01
S31693.02	JS-MW-03_GW-122821	Groundwater	12/28/21 13:21
S31693.03	JS-MW-04_GW-122821	Groundwater	12/28/21 15:26
S31693.04	JS-MW-05_GW-122821	Groundwater	12/28/21 16:56
S31693.05	JS-MW-06_GW-122921	Groundwater	12/29/21 11:21
S31693.06	JS-MW-07_GW-122921	Groundwater	12/29/21 12:26
S31693.07	JS-MW-09_GW-122921	Groundwater	12/29/21 13:51
S31693.08	JS-MW-10_GW-122921	Groundwater	12/29/21 15:31
S31693.09	Dup-01_GW-122821	Groundwater	12/28/21 00:01
S31693.10	Dup-02_GW-122921	Groundwater	12/29/21 00:01

Lab Sample ID: S31693.01
Sample Tag: Trip Blank
Collected Date/Time: 12/29/2021 00:01
Matrix: Water
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 10:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 04:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31693.01 (continued)
Sample Tag: Trip Blank

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 04:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31693.02
Sample Tag: JS-MW-03_GW-122821
Collected Date/Time: 12/28/2021 13:21
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 10:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 08:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31693.02 (continued)
Sample Tag: JS-MW-03_GW-122821

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 08:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31693.03
Sample Tag: JS-MW-04_GW-122821
Collected Date/Time: 12/28/2021 15:26
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 09:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31693.03 (continued)
Sample Tag: JS-MW-04_GW-122821

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 09:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31693.04
Sample Tag: JS-MW-05_GW-122821
Collected Date/Time: 12/28/2021 16:56
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 09:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	8	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	2		ug/L	1	104-51-8	X
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S31693.04 (continued)
Sample Tag: JS-MW-05_GW-122821

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 09:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	6	1		ug/L	1	100-41-4	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	1	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	10	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	4	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	9	2		ug/L	1		

Lab Sample ID: S31693.05
Sample Tag: JS-MW-06_GW-122921
Collected Date/Time: 12/29/2021 11:21
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 10:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	19	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	22		ug/L	1	104-51-8	SX
Bromobenzene	Not detected	1		ug/L	1	108-86-1	S
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	S
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	2	1		ug/L	1	135-98-8	S
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	S
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	S
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	S
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	S
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	S
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	S
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	S
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	S
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	S
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	S

S-Surrogate recovery outside of control limits X-Elevated reporting limit due to matrix interference

Lab Sample ID: S31693.05 (continued)
Sample Tag: JS-MW-06_GW-122921

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 10:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	488	1		ug/L	1	100-41-4	SE
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	S
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	S
Isopropylbenzene	26	5		ug/L	1	98-82-8	S
2-Methylnaphthalene	6	5		ug/L	1	91-57-6	S
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	S
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	83	5		ug/L	1	91-20-3	
n-Propylbenzene	84	1		ug/L	1	103-65-1	S
Styrene	Not detected	1		ug/L	1	100-42-5	S
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	S
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	S
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	S
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	S
1,2,3-Trimethylbenzene	30	1		ug/L	1	526-73-8	S
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	S
1,2,4-Trimethylbenzene	513	1		ug/L	1	95-63-6	SE
1,3,5-Trimethylbenzene	Not detected	114		ug/L	1	108-67-8	SX
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	8	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	7	1		ug/L	1	95-47-6	S
p,m-Xylene*	745	2		ug/L	1		SE

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/05/22 12:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	1,000		ug/L	20	67-64-1	Y
Acrylonitrile	Not detected	40		ug/L	20	107-13-1	Y
2-Butanone (MEK)	Not detected	500		ug/L	20	78-93-3	Y
Benzene	20	20		ug/L	20	71-43-2	Y
n-Butylbenzene	Not detected	20		ug/L	20	104-51-8	Y
Bromobenzene	Not detected	20		ug/L	20	108-86-1	Y
Bromochloromethane	Not detected	20		ug/L	20	74-97-5	Y
Bromodichloromethane	Not detected	20		ug/L	20	75-27-4	Y
Bromoform	Not detected	20		ug/L	20	75-25-2	Y
Bromomethane	Not detected	100		ug/L	20	74-83-9	Y
sec-Butylbenzene	Not detected	20		ug/L	20	135-98-8	Y
tert-Butylbenzene	Not detected	20		ug/L	20	98-06-6	Y
Carbon disulfide	Not detected	100		ug/L	20	75-15-0	Y

S-Surrogate recovery outside of control limits E-Concentration exceeds calibration range
X-Elevated reporting limit due to matrix interference
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S31693.05 (continued)
Sample Tag: JS-MW-06_GW-122921

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/05/22 12:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	20		ug/L	20	56-23-5	Y
Chlorobenzene	Not detected	20		ug/L	20	108-90-7	Y
Chloroethane	Not detected	100		ug/L	20	75-00-3	Y
Chloroform	Not detected	20		ug/L	20	67-66-3	Y
Chloromethane	Not detected	100		ug/L	20	74-87-3	Y
1,1-Dichloroethane	Not detected	20		ug/L	20	75-34-3	Y
1,1-Dichloroethene	Not detected	20		ug/L	20	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	100		ug/L	20	96-12-8	Y
1,2-Dibromoethane	Not detected	20		ug/L	20	106-93-4	Y
1,2-Dichlorobenzene	Not detected	20		ug/L	20	95-50-1	Y
1,2-Dichloroethane	Not detected	20		ug/L	20	107-06-2	Y
1,2-Dichloropropane	Not detected	20		ug/L	20	78-87-5	Y
1,3-Dichlorobenzene	Not detected	20		ug/L	20	541-73-1	Y
1,4-Dichlorobenzene	Not detected	20		ug/L	20	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	20		ug/L	20	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-01-5	Y
Dibromochloromethane	Not detected	100		ug/L	20	124-48-1	Y
Dibromomethane	Not detected	100		ug/L	20	74-95-3	Y
Dichlorodifluoromethane	Not detected	100		ug/L	20	75-71-8	Y
Diethyl ether	Not detected	200		ug/L	20	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	20		ug/L	20	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	20		ug/L	20	110-57-6	Y
Ethylbenzene	450	20		ug/L	20	100-41-4	Y
2-Hexanone	Not detected	1,000		ug/L	20	591-78-6	Y
Hexachloroethane	Not detected	100		ug/L	20	67-72-1	Y
p-Isopropyltoluene	Not detected	100		ug/L	20	99-87-6	Y
Isopropylbenzene	Not detected	100		ug/L	20	98-82-8	Y
2-Methylnaphthalene	Not detected	100		ug/L	20	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	1,000		ug/L	20	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	100		ug/L	20	1634-04-4	Y
Methyl iodide	Not detected	20		ug/L	20	74-88-4	Y
Methylene chloride	Not detected	100		ug/L	20	75-09-2	Y
Naphthalene	Not detected	100		ug/L	20	91-20-3	Y
n-Propylbenzene	60	20		ug/L	20	103-65-1	Y
Styrene	Not detected	20		ug/L	20	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	20		ug/L	20	630-20-6	Y
1,1,1-Trichloroethane	Not detected	20		ug/L	20	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	20		ug/L	20	79-34-5	Y
1,1,2-Trichloroethane	Not detected	20		ug/L	20	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	100		ug/L	20	87-61-6	Y
1,2,3-Trichloropropane	Not detected	20		ug/L	20	96-18-4	Y
1,2,3-Trimethylbenzene	30	20		ug/L	20	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	100		ug/L	20	120-82-1	Y
1,2,4-Trimethylbenzene	390	20		ug/L	20	95-63-6	Y
1,3,5-Trimethylbenzene	Not detected	100		ug/L	20	108-67-8	YX
Tetrachloroethene	Not detected	20		ug/L	20	127-18-4	Y
Tetrahydrofuran*	Not detected	1,800		ug/L	20	109-99-9	Y

Y-Elevated reporting limit due to high target concentration
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S31693.05 (continued)
Sample Tag: JS-MW-06_GW-122921

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/05/22 12:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Toluene	Not detected	20		ug/L	20	108-88-3	Y
Trichloroethene	Not detected	20		ug/L	20	79-01-6	Y
Trichlorofluoromethane	Not detected	20		ug/L	20	75-69-4	Y
Vinyl chloride	Not detected	20		ug/L	20	75-01-4	Y
o-Xylene	Not detected	20		ug/L	20	95-47-6	Y
p,m-Xylene*	640	40		ug/L	20		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S31693.06
Sample Tag: JS-MW-07_GW-122921
Collected Date/Time: 12/29/2021 12:26
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 10:27, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31693.06 (continued)
Sample Tag: JS-MW-07_GW-122921

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 10:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31693.07
Sample Tag: JS-MW-09_GW-122921
Collected Date/Time: 12/29/2021 13:51
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 10:51, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	438	1		ug/L	1	71-43-2	E
n-Butylbenzene	Not detected	66		ug/L	1	104-51-8	X
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	4	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	

E-Concentration exceeds calibration range
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S31693.07 (continued)
Sample Tag: JS-MW-09_GW-122921

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 10:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	463	1		ug/L	1	100-41-4	E
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	26	5		ug/L	1	98-82-8	
2-Methylnaphthalene	30	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	137	5		ug/L	1	91-20-3	
n-Propylbenzene	92	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	200	1		ug/L	1	526-73-8	E
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	801	1		ug/L	1	95-63-6	E
1,3,5-Trimethylbenzene	233	1		ug/L	1	108-67-8	E
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	81	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	58	1		ug/L	1	95-47-6	
p,m-Xylene*	1,284	2		ug/L	1		E

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/05/22 12:48, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	1,000		ug/L	20	67-64-1	Y
Acrylonitrile	Not detected	40		ug/L	20	107-13-1	Y
2-Butanone (MEK)	Not detected	500		ug/L	20	78-93-3	Y
Benzene	480	20		ug/L	20	71-43-2	Y
n-Butylbenzene	Not detected	80		ug/L	20	104-51-8	YX
Bromobenzene	Not detected	20		ug/L	20	108-86-1	Y
Bromochloromethane	Not detected	20		ug/L	20	74-97-5	Y
Bromodichloromethane	Not detected	20		ug/L	20	75-27-4	Y
Bromoform	Not detected	20		ug/L	20	75-25-2	Y
Bromomethane	Not detected	100		ug/L	20	74-83-9	Y
sec-Butylbenzene	Not detected	20		ug/L	20	135-98-8	Y
tert-Butylbenzene	Not detected	20		ug/L	20	98-06-6	Y

E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S31693.07 (continued)
Sample Tag: JS-MW-09_GW-122921

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/05/22 12:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon disulfide	Not detected	100		ug/L	20	75-15-0	Y
Carbon tetrachloride	Not detected	20		ug/L	20	56-23-5	Y
Chlorobenzene	Not detected	20		ug/L	20	108-90-7	Y
Chloroethane	Not detected	100		ug/L	20	75-00-3	Y
Chloroform	Not detected	20		ug/L	20	67-66-3	Y
Chloromethane	Not detected	100		ug/L	20	74-87-3	Y
1,1-Dichloroethane	Not detected	20		ug/L	20	75-34-3	Y
1,1-Dichloroethene	Not detected	20		ug/L	20	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	100		ug/L	20	96-12-8	Y
1,2-Dibromoethane	Not detected	20		ug/L	20	106-93-4	Y
1,2-Dichlorobenzene	Not detected	20		ug/L	20	95-50-1	Y
1,2-Dichloroethane	Not detected	20		ug/L	20	107-06-2	Y
1,2-Dichloropropane	Not detected	20		ug/L	20	78-87-5	Y
1,3-Dichlorobenzene	Not detected	20		ug/L	20	541-73-1	Y
1,4-Dichlorobenzene	Not detected	20		ug/L	20	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	20		ug/L	20	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-01-5	Y
Dibromochloromethane	Not detected	100		ug/L	20	124-48-1	Y
Dibromomethane	Not detected	100		ug/L	20	74-95-3	Y
Dichlorodifluoromethane	Not detected	100		ug/L	20	75-71-8	Y
Diethyl ether	Not detected	200		ug/L	20	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	20		ug/L	20	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	20		ug/L	20	110-57-6	Y
Ethylbenzene	780	20		ug/L	20	100-41-4	Y
2-Hexanone	Not detected	1,000		ug/L	20	591-78-6	Y
Hexachloroethane	Not detected	100		ug/L	20	67-72-1	Y
p-Isopropyltoluene	Not detected	100		ug/L	20	99-87-6	Y
Isopropylbenzene	Not detected	100		ug/L	20	98-82-8	Y
2-Methylnaphthalene	Not detected	100		ug/L	20	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	1,000		ug/L	20	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	100		ug/L	20	1634-04-4	Y
Methyl iodide	Not detected	20		ug/L	20	74-88-4	Y
Methylene chloride	Not detected	100		ug/L	20	75-09-2	Y
Naphthalene	100	100		ug/L	20	91-20-3	Y
n-Propylbenzene	80	20		ug/L	20	103-65-1	Y
Styrene	Not detected	20		ug/L	20	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	20		ug/L	20	630-20-6	Y
1,1,1-Trichloroethane	Not detected	20		ug/L	20	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	20		ug/L	20	79-34-5	Y
1,1,2-Trichloroethane	Not detected	20		ug/L	20	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	100		ug/L	20	87-61-6	Y
1,2,3-Trichloropropane	Not detected	20		ug/L	20	96-18-4	Y
1,2,3-Trimethylbenzene	220	20		ug/L	20	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	100		ug/L	20	120-82-1	Y
1,2,4-Trimethylbenzene	920	20		ug/L	20	95-63-6	Y
1,3,5-Trimethylbenzene	270	20		ug/L	20	108-67-8	Y
Tetrachloroethene	Not detected	20		ug/L	20	127-18-4	Y
Tetrahydrofuran*	Not detected	1,800		ug/L	20	109-99-9	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S31693.07 (continued)
Sample Tag: JS-MW-09_GW-122921

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/05/22 12:48, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Toluene	80	20		ug/L	20	108-88-3	Y
Trichloroethene	Not detected	20		ug/L	20	79-01-6	Y
Trichlorofluoromethane	Not detected	20		ug/L	20	75-69-4	Y
Vinyl chloride	Not detected	20		ug/L	20	75-01-4	Y
o-Xylene	50	20		ug/L	20	95-47-6	Y
p,m-Xylene*	2,510	40		ug/L	20		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S31693.08
Sample Tag: JS-MW-10_GW-122921
Collected Date/Time: 12/29/2021 15:31
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 13:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	16	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31693.08 (continued)
Sample Tag: JS-MW-10_GW-122921

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 13:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31693.09
Sample Tag: Dup-01_GW-122821
Collected Date/Time: 12/28/2021 00:01
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 11:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31693.09 (continued)
Sample Tag: Dup-01_GW-122821

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 11:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31693.10
Sample Tag: Dup-02_GW-122921
Collected Date/Time: 12/29/2021 00:01
Matrix: Groundwater
COC Reference: 138629

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/05/22 14:00	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 12:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	435	1		ug/L	1	71-43-2	E
n-Butylbenzene	Not detected	69		ug/L	1	104-51-8	X
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	4	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	

E-Concentration exceeds calibration range
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S31693.10 (continued)
Sample Tag: Dup-02_GW-122921

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 12:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	439	1		ug/L	1	100-41-4	E
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	27	5		ug/L	1	98-82-8	
2-Methylnaphthalene	35	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	146	5		ug/L	1	91-20-3	
n-Propylbenzene	95	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	208	1		ug/L	1	526-73-8	E
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	755	1		ug/L	1	95-63-6	E
1,3,5-Trimethylbenzene	267	1		ug/L	1	108-67-8	E
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	81	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	55	1		ug/L	1	95-47-6	
p,m-Xylene*	1,222	2		ug/L	1		E

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/06/22 14:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	1,000		ug/L	20	67-64-1	Y
Acrylonitrile	Not detected	40		ug/L	20	107-13-1	Y
2-Butanone (MEK)	Not detected	500		ug/L	20	78-93-3	Y
Benzene	450	20		ug/L	20	71-43-2	Y
n-Butylbenzene	Not detected	20		ug/L	20	104-51-8	Y
Bromobenzene	Not detected	20		ug/L	20	108-86-1	Y
Bromochloromethane	Not detected	20		ug/L	20	74-97-5	Y
Bromodichloromethane	Not detected	20		ug/L	20	75-27-4	Y
Bromoform	Not detected	20		ug/L	20	75-25-2	Y
Bromomethane	Not detected	100		ug/L	20	74-83-9	Y
sec-Butylbenzene	Not detected	20		ug/L	20	135-98-8	Y
tert-Butylbenzene	Not detected	20		ug/L	20	98-06-6	Y
Carbon disulfide	Not detected	100		ug/L	20	75-15-0	Y

E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S31693.10 (continued)
Sample Tag: Dup-02_GW-122921

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/06/22 14:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Carbon tetrachloride	Not detected	20		ug/L	20	56-23-5	Y
Chlorobenzene	Not detected	20		ug/L	20	108-90-7	Y
Chloroethane	Not detected	100		ug/L	20	75-00-3	Y
Chloroform	Not detected	20		ug/L	20	67-66-3	Y
Chloromethane	Not detected	100		ug/L	20	74-87-3	Y
1,1-Dichloroethane	Not detected	20		ug/L	20	75-34-3	Y
1,1-Dichloroethene	Not detected	20		ug/L	20	75-35-4	Y
1,2-Dibromo-3-chloropropane	Not detected	100		ug/L	20	96-12-8	Y
1,2-Dibromoethane	Not detected	20		ug/L	20	106-93-4	Y
1,2-Dichlorobenzene	Not detected	20		ug/L	20	95-50-1	Y
1,2-Dichloroethane	Not detected	20		ug/L	20	107-06-2	Y
1,2-Dichloropropane	Not detected	20		ug/L	20	78-87-5	Y
1,3-Dichlorobenzene	Not detected	20		ug/L	20	541-73-1	Y
1,4-Dichlorobenzene	Not detected	20		ug/L	20	106-46-7	Y
cis-1,2-Dichloroethene	Not detected	20		ug/L	20	156-59-2	Y
cis-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-01-5	Y
Dibromochloromethane	Not detected	100		ug/L	20	124-48-1	Y
Dibromomethane	Not detected	100		ug/L	20	74-95-3	Y
Dichlorodifluoromethane	Not detected	100		ug/L	20	75-71-8	Y
Diethyl ether	Not detected	200		ug/L	20	60-29-7	Y
trans-1,2-Dichloroethene	Not detected	20		ug/L	20	156-60-5	Y
trans-1,3-Dichloropropene	Not detected	20		ug/L	20	10061-02-6	Y
trans-1,4-Dichloro-2-butene	Not detected	20		ug/L	20	110-57-6	Y
Ethylbenzene	860	20		ug/L	20	100-41-4	Y
2-Hexanone	Not detected	1,000		ug/L	20	591-78-6	Y
Hexachloroethane	Not detected	100		ug/L	20	67-72-1	Y
p-Isopropyltoluene	Not detected	100		ug/L	20	99-87-6	Y
Isopropylbenzene	Not detected	100		ug/L	20	98-82-8	Y
2-Methylnaphthalene	Not detected	100		ug/L	20	91-57-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	1,000		ug/L	20	108-10-1	Y
tert-Methyl butyl ether (MTBE)	Not detected	100		ug/L	20	1634-04-4	Y
Methyl iodide	Not detected	20		ug/L	20	74-88-4	Y
Methylene chloride	Not detected	100		ug/L	20	75-09-2	Y
Naphthalene	200	100		ug/L	20	91-20-3	Y
n-Propylbenzene	80	20		ug/L	20	103-65-1	Y
Styrene	Not detected	20		ug/L	20	100-42-5	Y
1,1,1,2-Tetrachloroethane	Not detected	20		ug/L	20	630-20-6	Y
1,1,1-Trichloroethane	Not detected	20		ug/L	20	71-55-6	Y
1,1,2,2-Tetrachloroethane	Not detected	20		ug/L	20	79-34-5	Y
1,1,2-Trichloroethane	Not detected	20		ug/L	20	79-00-5	Y
1,2,3-Trichlorobenzene	Not detected	100		ug/L	20	87-61-6	Y
1,2,3-Trichloropropane	Not detected	20		ug/L	20	96-18-4	Y
1,2,3-Trimethylbenzene	270	20		ug/L	20	526-73-8	Y
1,2,4-Trichlorobenzene	Not detected	100		ug/L	20	120-82-1	Y
1,2,4-Trimethylbenzene	930	20		ug/L	20	95-63-6	Y
1,3,5-Trimethylbenzene	260	20		ug/L	20	108-67-8	Y
Tetrachloroethene	Not detected	20		ug/L	20	127-18-4	Y
Tetrahydrofuran*	Not detected	1,800		ug/L	20	109-99-9	Y
Toluene	70	20		ug/L	20	108-88-3	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S31693.10 (continued)

Sample Tag: Dup-02_GW-122921

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 01/06/22 14:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Trichloroethene	Not detected	20		ug/L	20	79-01-6	Y
Trichlorofluoromethane	Not detected	20		ug/L	20	75-69-4	Y
Vinyl chloride	Not detected	20		ug/L	20	75-01-4	Y
o-Xylene	40	20		ug/L	20	95-47-6	Y
p,m-Xylene*	2,730	40		ug/L	20		Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories Login Checklist

Lab Set ID: S31693
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936.00005 / Racer PNC GWS
Submitted: 12/30/2021 10:45 Login User: MMC

Attention: Alexis Crisp
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX:
Email: Alexis.Crisp@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

138629

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot DR., Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: Lexi.Crisp@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936.00005 / Racer PNG GWS
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Gary Schafer / Gary Schafer
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other _____
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG. IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs 8260B
31693.01	12/29/21		Trip Blank		1		X						X
.02	12/28/21	1321	JS-MW-03_GW-122821	GW	3		X						X
.03	12/28/21	1526	JS-MW-04_GW-122821	GW	3		X						X
.04	12/28/21	1656	JS-MW-05_GW-122821	GW	3		X						X
.05	12/29/21	1121	JS-MW-06_GW-122921	GW	3		X						X
.06	12/29/21	1226	JS-MW-07_GW-122921	GW	3		X						X
.07	12/29/21	1351	JS-MW-09_GW-122921	GW	3		X						X
.08	12/29/21	1531	JS-MW-10_GW-122921	GW	3		X						X
.09	12/28/21		DUP-01_GW-122821	GW	3		X						X
.10	12/29/21		DUP-02_GW-122921	GW	3		X						X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Gary Schafer ☒ Sampler	DATE: 12/30/21	TIME: 9:30	
RECEIVED BY: SIGNATURE/ORGANIZATION: [illegible]	DATE: 12/30/21	TIME: 9:30	
RELINQUISHED BY: SIGNATURE/ORGANIZATION: [illegible]	DATE: 12/30/21	TIME: 10:45	
RECEIVED BY: SIGNATURE/ORGANIZATION: M Chilcote	DATE: 12/30/21	TIME: 1045	

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S31744.01(01)
Generated on 01/07/2022

Report to

Attention: Alexis Crisp
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX:
Email: Alexis.Crisp@arcadis.com

Addtional Contacts: Brad Saunders

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S31744.01-S31744.09
Project: 30075936.00005
Collected Date(s): 12/30/2021 - 01/04/2022
Submitted Date/Time: 01/04/2022 15:30
Sampled by: Gary Schafer
P.O. #: 30075936.00005

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
N/A	Not Applicable
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S31744.01	Trip Blank	Water	12/30/21 00:01
S31744.02	JS-MW-11_GW-123021	Groundwater	12/30/21 09:51
S31744.03	JS-MW-19_GW-123021	Groundwater	12/30/21 13:16
S31744.04	JS-MW-16_GW-123021	Groundwater	12/30/21 14:41
S31744.05	JS-MW-16-MS_GW-123021	Groundwater	12/30/21 14:41
S31744.06	JS-MW-16-MSD_GW-123021	Groundwater	12/30/21 14:41
S31744.07	JS-MW-22_GW-010422	Groundwater	01/04/22 10:36
S31744.08	JS-MW-21_GW-010422	Groundwater	01/04/22 11:56
S31744.09	JS-MW-29_GW-010422	Groundwater	01/04/22 13:06

Analytical Laboratory Report

Lab Sample ID: S31744.01
Sample Tag: Trip Blank
Collected Date/Time: 12/30/2021 00:01
Matrix: Water
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 15:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.01 (continued)
Sample Tag: Trip Blank

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 15:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31744.02
Sample Tag: JS-MW-11_GW-123021
Collected Date/Time: 12/30/2021 09:51
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:01, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.02 (continued)
Sample Tag: JS-MW-11_GW-123021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:01, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31744.03
Sample Tag: JS-MW-19_GW-123021
Collected Date/Time: 12/30/2021 13:16
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	15	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	36	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.03 (continued)
Sample Tag: JS-MW-19_GW-123021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	16	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	24	5		ug/L	1	91-20-3	
n-Propylbenzene	36	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	4	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	1	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	1	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	4	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	7	1		ug/L	1	95-47-6	
p,m-Xylene*	68	2		ug/L	1		

Lab Sample ID: S31744.04
Sample Tag: JS-MW-16_GW-123021
Collected Date/Time: 12/30/2021 14:41
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 15:26, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	1	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.04 (continued)
Sample Tag: JS-MW-16_GW-123021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 15:26, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	5	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	2	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31744.05
Sample Tag: JS-MW-16-MS_GW-123021
Collected Date/Time: 12/30/2021 14:41
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 13:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	56	50		ug/L	1	67-64-1	1
Acrylonitrile	53	2		ug/L	1	107-13-1	1
2-Butanone (MEK)	52	25		ug/L	1	78-93-3	1
Benzene	46	1		ug/L	1	71-43-2	1
n-Butylbenzene	48	1		ug/L	1	104-51-8	1
Bromobenzene	48	1		ug/L	1	108-86-1	1
Bromochloromethane	47	1		ug/L	1	74-97-5	1
Bromodichloromethane	48	1		ug/L	1	75-27-4	1
Bromoform	50	1		ug/L	1	75-25-2	1
Bromomethane	45	5		ug/L	1	74-83-9	1
sec-Butylbenzene	48	1		ug/L	1	135-98-8	1
tert-Butylbenzene	47	1		ug/L	1	98-06-6	1
Carbon disulfide	46	5		ug/L	1	75-15-0	1
Carbon tetrachloride	46	1		ug/L	1	56-23-5	1
Chlorobenzene	46	1		ug/L	1	108-90-7	1
Chloroethane	44	5		ug/L	1	75-00-3	1
Chloroform	47	1		ug/L	1	67-66-3	1
Chloromethane	46	5		ug/L	1	74-87-3	1
1,1-Dichloroethane	47	1		ug/L	1	75-34-3	1
1,1-Dichloroethene	47	1		ug/L	1	75-35-4	1
1,2-Dibromo-3-chloropropane	53	5		ug/L	1	96-12-8	1
1,2-Dibromoethane	51	1		ug/L	1	106-93-4	1
1,2-Dichlorobenzene	47	1		ug/L	1	95-50-1	1
1,2-Dichloroethane	49	1		ug/L	1	107-06-2	1
1,2-Dichloropropane	47	1		ug/L	1	78-87-5	1
1,3-Dichlorobenzene	45	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	47	1		ug/L	1	106-46-7	1
cis-1,2-Dichloroethene	48	1		ug/L	1	156-59-2	1
cis-1,3-Dichloropropene	50	1		ug/L	1	10061-01-5	1
Dibromochloromethane	49	5		ug/L	1	124-48-1	1
Dibromomethane	49	5		ug/L	1	74-95-3	1
Dichlorodifluoromethane	48	5		ug/L	1	75-71-8	1
Diethyl ether	49	10		ug/L	1	60-29-7	1
trans-1,2-Dichloroethene	48	1		ug/L	1	156-60-5	1
trans-1,3-Dichloropropene	51	1		ug/L	1	10061-02-6	1
trans-1,4-Dichloro-2-butene	55	1		ug/L	1	110-57-6	1

1-Spiked at 50ug/L

Lab Sample ID: S31744.05 (continued)
Sample Tag: JS-MW-16-MS_GW-123021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 13:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	47	1		ug/L	1	100-41-4	1
2-Hexanone	53	50		ug/L	1	591-78-6	1
Hexachloroethane	50	5		ug/L	1	67-72-1	1
p-Isopropyltoluene	47	5		ug/L	1	99-87-6	1
Isopropylbenzene	49	5		ug/L	1	98-82-8	1
2-Methylnaphthalene	61	5		ug/L	1	91-57-6	1
4-Methyl-2-pentanone (MIBK)	54	50		ug/L	1	108-10-1	1
tert-Methyl butyl ether (MTBE)	53	5		ug/L	1	1634-04-4	1
Methyl iodide	48	1		ug/L	1	74-88-4	1
Methylene chloride	47	5		ug/L	1	75-09-2	1
Naphthalene	59	5		ug/L	1	91-20-3	1
n-Propylbenzene	53	1		ug/L	1	103-65-1	1
Styrene	47	1		ug/L	1	100-42-5	1
1,1,1,2-Tetrachloroethane	47	1		ug/L	1	630-20-6	1
1,1,1-Trichloroethane	46	1		ug/L	1	71-55-6	1
1,1,2,2-Tetrachloroethane	50	1		ug/L	1	79-34-5	1
1,1,2-Trichloroethane	48	1		ug/L	1	79-00-5	1
1,2,3-Trichlorobenzene	52	5		ug/L	1	87-61-6	1
1,2,3-Trichloropropane	48	1		ug/L	1	96-18-4	1
1,2,3-Trimethylbenzene	50	1		ug/L	1	526-73-8	1
1,2,4-Trichlorobenzene	52	5		ug/L	1	120-82-1	1
1,2,4-Trimethylbenzene	48	1		ug/L	1	95-63-6	1
1,3,5-Trimethylbenzene	48	1		ug/L	1	108-67-8	1
Tetrachloroethene	44	1		ug/L	1	127-18-4	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Toluene	47	1		ug/L	1	108-88-3	1
Trichloroethene	47	1		ug/L	1	79-01-6	1
Trichlorofluoromethane	45	1		ug/L	1	75-69-4	1
Vinyl chloride	47	1		ug/L	1	75-01-4	1
o-Xylene	46	1		ug/L	1	95-47-6	1
p,m-Xylene*	93	2		ug/L	1		1

1-Spiked at 50ug/L

Lab Sample ID: S31744.06
Sample Tag: JS-MW-16-MSD_GW-123021
Collected Date/Time: 12/30/2021 14:41
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 13:51, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	56	50		ug/L	1	67-64-1	1
Acrylonitrile	50	2		ug/L	1	107-13-1	1
2-Butanone (MEK)	49	25		ug/L	1	78-93-3	1
Benzene	48	1		ug/L	1	71-43-2	1
n-Butylbenzene	50	1		ug/L	1	104-51-8	1
Bromobenzene	48	1		ug/L	1	108-86-1	1
Bromochloromethane	49	1		ug/L	1	74-97-5	1
Bromodichloromethane	49	1		ug/L	1	75-27-4	1
Bromoform	50	1		ug/L	1	75-25-2	1
Bromomethane	48	5		ug/L	1	74-83-9	1
sec-Butylbenzene	51	1		ug/L	1	135-98-8	1
tert-Butylbenzene	49	1		ug/L	1	98-06-6	1
Carbon disulfide	49	5		ug/L	1	75-15-0	1
Carbon tetrachloride	49	1		ug/L	1	56-23-5	1
Chlorobenzene	48	1		ug/L	1	108-90-7	1
Chloroethane	47	5		ug/L	1	75-00-3	1
Chloroform	49	1		ug/L	1	67-66-3	1
Chloromethane	50	5		ug/L	1	74-87-3	1
1,1-Dichloroethane	49	1		ug/L	1	75-34-3	1
1,1-Dichloroethene	50	1		ug/L	1	75-35-4	1
1,2-Dibromo-3-chloropropane	52	5		ug/L	1	96-12-8	1
1,2-Dibromoethane	51	1		ug/L	1	106-93-4	1
1,2-Dichlorobenzene	49	1		ug/L	1	95-50-1	1
1,2-Dichloroethane	49	1		ug/L	1	107-06-2	1
1,2-Dichloropropane	49	1		ug/L	1	78-87-5	1
1,3-Dichlorobenzene	48	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	48	1		ug/L	1	106-46-7	1
cis-1,2-Dichloroethene	50	1		ug/L	1	156-59-2	1
cis-1,3-Dichloropropene	51	1		ug/L	1	10061-01-5	1
Dibromochloromethane	49	5		ug/L	1	124-48-1	1
Dibromomethane	48	5		ug/L	1	74-95-3	1
Dichlorodifluoromethane	51	5		ug/L	1	75-71-8	1
Diethyl ether	50	10		ug/L	1	60-29-7	1
trans-1,2-Dichloroethene	49	1		ug/L	1	156-60-5	1
trans-1,3-Dichloropropene	51	1		ug/L	1	10061-02-6	1
trans-1,4-Dichloro-2-butene	54	1		ug/L	1	110-57-6	1

1-Spiked at 50ug/L

Lab Sample ID: S31744.06 (continued)
Sample Tag: JS-MW-16-MSD_GW-123021

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 13:51, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	49	1		ug/L	1	100-41-4	1
2-Hexanone	50	50		ug/L	1	591-78-6	1
Hexachloroethane	53	5		ug/L	1	67-72-1	1
p-Isopropyltoluene	50	5		ug/L	1	99-87-6	1
Isopropylbenzene	51	5		ug/L	1	98-82-8	1
2-Methylnaphthalene	60	5		ug/L	1	91-57-6	1
4-Methyl-2-pentanone (MIBK)	51	50		ug/L	1	108-10-1	1
tert-Methyl butyl ether (MTBE)	52	5		ug/L	1	1634-04-4	1
Methyl iodide	50	1		ug/L	1	74-88-4	1
Methylene chloride	49	5		ug/L	1	75-09-2	1
Naphthalene	57	5		ug/L	1	91-20-3	1
n-Propylbenzene	54	1		ug/L	1	103-65-1	1
Styrene	49	1		ug/L	1	100-42-5	1
1,1,1,2-Tetrachloroethane	48	1		ug/L	1	630-20-6	1
1,1,1-Trichloroethane	48	1		ug/L	1	71-55-6	1
1,1,2,2-Tetrachloroethane	49	1		ug/L	1	79-34-5	1
1,1,2-Trichloroethane	48	1		ug/L	1	79-00-5	1
1,2,3-Trichlorobenzene	53	5		ug/L	1	87-61-6	1
1,2,3-Trichloropropane	46	1		ug/L	1	96-18-4	1
1,2,3-Trimethylbenzene	51	1		ug/L	1	526-73-8	1
1,2,4-Trichlorobenzene	54	5		ug/L	1	120-82-1	1
1,2,4-Trimethylbenzene	49	1		ug/L	1	95-63-6	1
1,3,5-Trimethylbenzene	50	1		ug/L	1	108-67-8	1
Tetrachloroethene	47	1		ug/L	1	127-18-4	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Toluene	48	1		ug/L	1	108-88-3	1
Trichloroethene	49	1		ug/L	1	79-01-6	1
Trichlorofluoromethane	46	1		ug/L	1	75-69-4	1
Vinyl chloride	51	1		ug/L	1	75-01-4	1
o-Xylene	48	1		ug/L	1	95-47-6	1
p,m-Xylene*	97	2		ug/L	1		1

1-Spiked at 50ug/L

Lab Sample ID: S31744.07
Sample Tag: JS-MW-22_GW-010422
Collected Date/Time: 01/04/2022 10:36
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:38, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.07 (continued)
Sample Tag: JS-MW-22_GW-010422

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:38, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31744.08
Sample Tag: JS-MW-21_GW-010422
Collected Date/Time: 01/04/2022 11:56
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:58, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.08 (continued)
Sample Tag: JS-MW-21_GW-010422

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 17:58, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31744.09
Sample Tag: JS-MW-29_GW-010422
Collected Date/Time: 01/04/2022 13:06
Matrix: Groundwater
COC Reference: 138621

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.3	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/06/22 12:30	KAG	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 18:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	4	1		ug/L	1	100-41-4	

Lab Sample ID: S31744.09 (continued)
Sample Tag: JS-MW-29_GW-010422

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/05/22 18:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	5	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	3	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	3	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	1	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Merit Laboratories Login Checklist

Lab Set ID: S31744
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936.00005
Submitted: 01/04/2022 15:30 Login User: JRM

Attention: Alexis Crisp
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX:
Email: Alexis.Crisp@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.3
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

138621

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot Dr., Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO. | FAX NO. | P.O. NO.
E-MAIL ADDRESS: Lexi.Crisp@arcadis.com | QUOTE NO.

INVOICE TO

CONTACT NAME | ☐ SAME
COMPANY
ADDRESS
CITY | STATE | ZIP CODE
PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME: 30075936.00005
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Gary Schafer / Gary Schafer

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other _____
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs 8260D
.01			Trip Blank										X
31744.02	12/30/21	0951	JS-MW-11_GW-123021	GW	3		X						X
.03	12/30/21	1316	JS-MW-19_GW-123021		3		X						X
.04	12/30/21	1441	JS-MW-16-~~MS~~_GW-123021		3		X						X
.05	12/30/21	1441	JS-MW-16-MS_GW-123021		3		X						X
.06	12/30/21	1441	JS-MW-16-MSD_GW-123021		3		X						X
.07	01/04/22	1036	JS-MW-22_GW-010422		3		X						X
.08	01/04/22	1154	JS-MW-21_GW-010422		3		X						X
.09	01/04/22	1306	JS-MW-29_GW-010422		3		X						X

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Gary Schafer / Sampler	01/04/22	1356
RECEIVED BY: SIGNATURE/ORGANIZATION		1/4/22	13:56
RELINQUISHED BY: SIGNATURE/ORGANIZATION		1/4/22	15:30
RECEIVED BY: SIGNATURE/ORGANIZATION	Johanna Yancey	1/4/22	1530

RELINQUISHED BY: SIGNATURE/ORGANIZATION | DATE | TIME
RECEIVED BY: SIGNATURE/ORGANIZATION | DATE | TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: | TEMP. ON ARRIVAL: 3.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S31813.01(01)
Generated on 01/10/2022

Report to

Attention: Alexis Crisp
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX:
Email: Alexis.Crisp@arcadis.com

Addtional Contacts: Brad Saunders

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S31813.01-S31813.12
Project: 30075936.00005 / Racer PNC
Collected Date(s): 01/04/2022 - 01/06/2022
Submitted Date/Time: 01/06/2022 15:20
Sampled by: Gary Schafer
P.O. #: 30075936.00005

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
N/A	Not Applicable
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S31813.01	Trip Blank	Water	01/04/22 00:01
S31813.02	JS-MW-20_GW-010422	Groundwater	01/04/22 11:51
S31813.03	JS-MW-25_GW-010522	Groundwater	01/05/22 10:21
S31813.04	JS-MW-24_GW-010522	Groundwater	01/05/22 11:51
S31813.05	JS-MW-23_GW-010522	Groundwater	01/05/22 13:26
S31813.06	JS-MW-28_GW-010522	Groundwater	01/05/22 14:36
S31813.07	JS-MW-26_GW-010622	Groundwater	01/06/22 10:31
S31813.08	JS-MW-26-MS_GW-010622	Groundwater	01/06/22 10:31
S31813.09	JS-MW-26-MSD_GW-010622	Groundwater	01/06/22 10:31
S31813.10	JS-MW-30_GW-010622	Groundwater	01/06/22 11:46
S31813.11	JS-MW-27_GW-010622	Groundwater	01/06/22 12:56
S31813.12	DUP-03_GW-010422	Groundwater	01/04/22 00:01

Lab Sample ID: S31813.01
Sample Tag: Trip Blank
Collected Date/Time: 01/04/2022 00:01
Matrix: Water
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 14:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.01 (continued)
Sample Tag: Trip Blank

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 14:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.02
Sample Tag: JS-MW-20_GW-010422
Collected Date/Time: 01/04/2022 11:51
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 15:40, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.02 (continued)
Sample Tag: JS-MW-20_GW-010422

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 15:40, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.03
Sample Tag: JS-MW-25_GW-010522
Collected Date/Time: 01/05/2022 10:21
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 15:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.03 (continued)
Sample Tag: JS-MW-25_GW-010522

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 15:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.04
Sample Tag: JS-MW-24_GW-010522
Collected Date/Time: 01/05/2022 11:51
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 16:18, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.04 (continued)
Sample Tag: JS-MW-24_GW-010522

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 16:18, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.05
Sample Tag: JS-MW-23_GW-010522
Collected Date/Time: 01/05/2022 13:26
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 16:37, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	2	1		ug/L	1	71-43-2	
n-Butylbenzene	1	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	9	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.05 (continued)
Sample Tag: JS-MW-23_GW-010522

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 16:37, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	4	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	7	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	2	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	2	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	2	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	3	1		ug/L	1	95-47-6	
p,m-Xylene*	12	2		ug/L	1		

Lab Sample ID: S31813.06
Sample Tag: JS-MW-28_GW-010522
Collected Date/Time: 01/05/2022 14:36
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 16:56, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.06 (continued)
Sample Tag: JS-MW-28_GW-010522

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 16:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.07
Sample Tag: JS-MW-26_GW-010622
Collected Date/Time: 01/06/2022 10:31
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 15:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.07 (continued)
Sample Tag: JS-MW-26_GW-010622

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 15:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.08
Sample Tag: JS-MW-26-MS_GW-010622
Collected Date/Time: 01/06/2022 10:31
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 13:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	55	50		ug/L	1	67-64-1	1
Acrylonitrile	53	2		ug/L	1	107-13-1	1
2-Butanone (MEK)	55	25		ug/L	1	78-93-3	1
Benzene	48	1		ug/L	1	71-43-2	1
n-Butylbenzene	50	1		ug/L	1	104-51-8	1
Bromobenzene	50	1		ug/L	1	108-86-1	1
Bromochloromethane	50	1		ug/L	1	74-97-5	1
Bromodichloromethane	50	1		ug/L	1	75-27-4	1
Bromoform	53	1		ug/L	1	75-25-2	1
Bromomethane	47	5		ug/L	1	74-83-9	1
sec-Butylbenzene	48	1		ug/L	1	135-98-8	1
tert-Butylbenzene	48	1		ug/L	1	98-06-6	1
Carbon disulfide	47	5		ug/L	1	75-15-0	1
Carbon tetrachloride	47	1		ug/L	1	56-23-5	1
Chlorobenzene	49	1		ug/L	1	108-90-7	1
Chloroethane	45	5		ug/L	1	75-00-3	1
Chloroform	48	1		ug/L	1	67-66-3	1
Chloromethane	47	5		ug/L	1	74-87-3	1
1,1-Dichloroethane	49	1		ug/L	1	75-34-3	1
1,1-Dichloroethene	47	1		ug/L	1	75-35-4	1
1,2-Dibromo-3-chloropropane	55	5		ug/L	1	96-12-8	1
1,2-Dibromoethane	53	1		ug/L	1	106-93-4	1
1,2-Dichlorobenzene	49	1		ug/L	1	95-50-1	1
1,2-Dichloroethane	49	1		ug/L	1	107-06-2	1
1,2-Dichloropropane	48	1		ug/L	1	78-87-5	1
1,3-Dichlorobenzene	48	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	49	1		ug/L	1	106-46-7	1
cis-1,2-Dichloroethene	50	1		ug/L	1	156-59-2	1
cis-1,3-Dichloropropene	52	1		ug/L	1	10061-01-5	1
Dibromochloromethane	51	5		ug/L	1	124-48-1	1
Dibromomethane	51	5		ug/L	1	74-95-3	1
Dichlorodifluoromethane	50	5		ug/L	1	75-71-8	1
Diethyl ether	51	10		ug/L	1	60-29-7	1
trans-1,2-Dichloroethene	49	1		ug/L	1	156-60-5	1
trans-1,3-Dichloropropene	51	1		ug/L	1	10061-02-6	1
trans-1,4-Dichloro-2-butene	54	1		ug/L	1	110-57-6	1

1-Spiked at 50ug/L

Lab Sample ID: S31813.08 (continued)
Sample Tag: JS-MW-26-MS_GW-010622

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 13:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	49	1		ug/L	1	100-41-4	1
2-Hexanone	59	50		ug/L	1	591-78-6	1
Hexachloroethane	54	5		ug/L	1	67-72-1	1
p-Isopropyltoluene	49	5		ug/L	1	99-87-6	1
Isopropylbenzene	50	5		ug/L	1	98-82-8	1
2-Methylnaphthalene	64	5		ug/L	1	91-57-6	1
4-Methyl-2-pentanone (MIBK)	58	50		ug/L	1	108-10-1	1
tert-Methyl butyl ether (MTBE)	57	5		ug/L	1	1634-04-4	1
Methyl iodide	50	1		ug/L	1	74-88-4	1
Methylene chloride	49	5		ug/L	1	75-09-2	1
Naphthalene	56	5		ug/L	1	91-20-3	1
n-Propylbenzene	49	1		ug/L	1	103-65-1	1
Styrene	49	1		ug/L	1	100-42-5	1
1,1,1,2-Tetrachloroethane	50	1		ug/L	1	630-20-6	1
1,1,1-Trichloroethane	47	1		ug/L	1	71-55-6	1
1,1,2,2-Tetrachloroethane	52	1		ug/L	1	79-34-5	1
1,1,2-Trichloroethane	49	1		ug/L	1	79-00-5	1
1,2,3-Trichlorobenzene	53	5		ug/L	1	87-61-6	1
1,2,3-Trichloropropane	50	1		ug/L	1	96-18-4	1
1,2,3-Trimethylbenzene	53	1		ug/L	1	526-73-8	1
1,2,4-Trichlorobenzene	53	5		ug/L	1	120-82-1	1
1,2,4-Trimethylbenzene	48	1		ug/L	1	95-63-6	1
1,3,5-Trimethylbenzene	49	1		ug/L	1	108-67-8	1
Tetrachloroethene	47	1		ug/L	1	127-18-4	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Toluene	48	1		ug/L	1	108-88-3	1
Trichloroethene	49	1		ug/L	1	79-01-6	1
Trichlorofluoromethane	43	1		ug/L	1	75-69-4	1
Vinyl chloride	47	1		ug/L	1	75-01-4	1
o-Xylene	48	1		ug/L	1	95-47-6	1
p,m-Xylene*	95	2		ug/L	1		1

1-Spiked at 50ug/L

Lab Sample ID: S31813.09
Sample Tag: JS-MW-26-MSD_GW-010622
Collected Date/Time: 01/06/2022 10:31
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 13:27, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	1
Acrylonitrile	50	2		ug/L	1	107-13-1	1
2-Butanone (MEK)	51	25		ug/L	1	78-93-3	1
Benzene	47	1		ug/L	1	71-43-2	1
n-Butylbenzene	48	1		ug/L	1	104-51-8	1
Bromobenzene	49	1		ug/L	1	108-86-1	1
Bromochloromethane	49	1		ug/L	1	74-97-5	1
Bromodichloromethane	49	1		ug/L	1	75-27-4	1
Bromoform	51	1		ug/L	1	75-25-2	1
Bromomethane	49	5		ug/L	1	74-83-9	1
sec-Butylbenzene	48	1		ug/L	1	135-98-8	1
tert-Butylbenzene	47	1		ug/L	1	98-06-6	1
Carbon disulfide	46	5		ug/L	1	75-15-0	1
Carbon tetrachloride	46	1		ug/L	1	56-23-5	1
Chlorobenzene	48	1		ug/L	1	108-90-7	1
Chloroethane	46	5		ug/L	1	75-00-3	1
Chloroform	48	1		ug/L	1	67-66-3	1
Chloromethane	48	5		ug/L	1	74-87-3	1
1,1-Dichloroethane	48	1		ug/L	1	75-34-3	1
1,1-Dichloroethene	46	1		ug/L	1	75-35-4	1
1,2-Dibromo-3-chloropropane	51	5		ug/L	1	96-12-8	1
1,2-Dibromoethane	52	1		ug/L	1	106-93-4	1
1,2-Dichlorobenzene	49	1		ug/L	1	95-50-1	1
1,2-Dichloroethane	47	1		ug/L	1	107-06-2	1
1,2-Dichloropropane	48	1		ug/L	1	78-87-5	1
1,3-Dichlorobenzene	47	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	48	1		ug/L	1	106-46-7	1
cis-1,2-Dichloroethene	49	1		ug/L	1	156-59-2	1
cis-1,3-Dichloropropene	51	1		ug/L	1	10061-01-5	1
Dibromochloromethane	50	5		ug/L	1	124-48-1	1
Dibromomethane	50	5		ug/L	1	74-95-3	1
Dichlorodifluoromethane	48	5		ug/L	1	75-71-8	1
Diethyl ether	47	10		ug/L	1	60-29-7	1
trans-1,2-Dichloroethene	48	1		ug/L	1	156-60-5	1
trans-1,3-Dichloropropene	49	1		ug/L	1	10061-02-6	1
trans-1,4-Dichloro-2-butene	50	1		ug/L	1	110-57-6	1

1-Spiked at 50ug/L

Lab Sample ID: S31813.09 (continued)
Sample Tag: JS-MW-26-MSD_GW-010622

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 13:27, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Ethylbenzene	47	1		ug/L	1	100-41-4	1
2-Hexanone	52	50		ug/L	1	591-78-6	1
Hexachloroethane	53	5		ug/L	1	67-72-1	1
p-Isopropyltoluene	48	5		ug/L	1	99-87-6	1
Isopropylbenzene	48	5		ug/L	1	98-82-8	1
2-Methylnaphthalene	57	5		ug/L	1	91-57-6	1
4-Methyl-2-pentanone (MIBK)	54	50		ug/L	1	108-10-1	1
tert-Methyl butyl ether (MTBE)	56	5		ug/L	1	1634-04-4	1
Methyl iodide	50	1		ug/L	1	74-88-4	1
Methylene chloride	49	5		ug/L	1	75-09-2	1
Naphthalene	52	5		ug/L	1	91-20-3	1
n-Propylbenzene	48	1		ug/L	1	103-65-1	1
Styrene	48	1		ug/L	1	100-42-5	1
1,1,1,2-Tetrachloroethane	48	1		ug/L	1	630-20-6	1
1,1,1-Trichloroethane	47	1		ug/L	1	71-55-6	1
1,1,2,2-Tetrachloroethane	49	1		ug/L	1	79-34-5	1
1,1,2-Trichloroethane	47	1		ug/L	1	79-00-5	1
1,2,3-Trichlorobenzene	52	5		ug/L	1	87-61-6	1
1,2,3-Trichloropropane	47	1		ug/L	1	96-18-4	1
1,2,3-Trimethylbenzene	52	1		ug/L	1	526-73-8	1
1,2,4-Trichlorobenzene	51	5		ug/L	1	120-82-1	1
1,2,4-Trimethylbenzene	47	1		ug/L	1	95-63-6	1
1,3,5-Trimethylbenzene	48	1		ug/L	1	108-67-8	1
Tetrachloroethene	46	1		ug/L	1	127-18-4	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Toluene	47	1		ug/L	1	108-88-3	1
Trichloroethene	48	1		ug/L	1	79-01-6	1
Trichlorofluoromethane	47	1		ug/L	1	75-69-4	1
Vinyl chloride	48	1		ug/L	1	75-01-4	1
o-Xylene	47	1		ug/L	1	95-47-6	1
p,m-Xylene*	94	2		ug/L	1		1

1-Spiked at 50ug/L

Lab Sample ID: S31813.10
Sample Tag: JS-MW-30_GW-010622
Collected Date/Time: 01/06/2022 11:46
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 17:15, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.10 (continued)
Sample Tag: JS-MW-30_GW-010622

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 17:15, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.11
Sample Tag: JS-MW-27_GW-010622
Collected Date/Time: 01/06/2022 12:56
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 17:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	3	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.11 (continued)
Sample Tag: JS-MW-27_GW-010622

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 17:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Lab Sample ID: S31813.12
Sample Tag: DUP-03_GW-010422
Collected Date/Time: 01/04/2022 00:01
Matrix: Groundwater
COC Reference: 138622

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	01/10/22 10:30	BML	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 17:53, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	Not detected	50		ug/L	1	67-64-1	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Benzene	Not detected	1		ug/L	1	71-43-2	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Bromoform	Not detected	1		ug/L	1	75-25-2	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	

Lab Sample ID: S31813.12 (continued)
Sample Tag: DUP-03_GW-010422

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 01/07/22 17:53, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Styrene	Not detected	1		ug/L	1	100-42-5	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Toluene	Not detected	1		ug/L	1	108-88-3	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
o-Xylene	Not detected	1		ug/L	1	95-47-6	
p,m-Xylene*	Not detected	2		ug/L	1		

Merit Laboratories Login Checklist

Lab Set ID: S31813
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936.00005 / Racer PNC
Submitted: 01/06/2022 15:20 Login User: PFD

Attention: Alexis Crisp
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1909 FAX:
Email: Alexis.Crisp@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.2
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[X] No	[ ] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # _____ OF _____ 138622

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp
COMPANY: Arcadis of Michigan, LLC
ADDRESS: 28550 Cabot Dr., Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: 30075936.00005 / Racer PNC QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME:
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Gary Schafer / Gary Schafer

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER _____

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER _____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other _____
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs 8260B
318130			Trip Blank		1		X						X
.02	01/04/22	11:51	JS-MW-20_GW-010422	GW	3		X						X
.03	01/05/22	10:21	JS-MW-25_GW-010522	GW	3		X						X
.04	01/05/22	11:51	JS-MW-24_GW-010522	GW	3		X						X
.05	01/05/22	13:26	JS-MW-23_GW-010522	GW	3		X						X
.06	01/05/22	14:36	JS-MW-28_GW-010522	GW	3		X						X
.07	01/06/22	10:31	JS-MW-26_GW-010622	GW	3		X						X
.08	01/06/22	10:31	JS-MW-26-MS_GW-010622	GW	3		X						X
.09	01/06/22	10:31	JS-MW-26-MSD_GW-010622	GW	3		X						X
.10	01/06/22	11:46	JS-MW-30_GW-010622	GW	3		X						X
.11	01/06/22	12:56	JS-MW-27_GW-010622	GW	3		X						X
.12	01/04/22		DUP-03_GW-010422	GW	3		X						X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
Gary Schafer		01/06/22	1349
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		1/06/22	13:49
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		1/6/22	15:21
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
[signature]		1/6/22	1520

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
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SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Report ID: S23782.08(01)
Generated on 05/12/2021

Report to

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Report Summary

Lab Sample ID(s): S23782.08-S23782.26
Project: 30075936 / Racer PNC
Collected Date(s): 04/27/2021 - 04/30/2021
Submitted Date/Time: 05/04/2021 09:20
Sampled by: Seth Turner
P.O. #: 30075936

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

Southern Parcel samples reported.

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW8270D	SW 846 Method 8270D Revision 4 February 2007

Sample Summary (19 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S23782.08	JS-SB-01_SO-042921(7.5-8.5)	Soil	04/29/21 14:05
S23782.09	JS-SB-02_SO-042721(11-12)	Soil	04/27/21 14:30
S23782.10	JS-SB-03_SO-042821(2-3)	Soil	04/28/21 09:20
S23782.11	JS-SB-03_SO-042821(11.2-12.2)	Soil	04/28/21 09:30
S23782.12	JS-SB-04_SO-042821(4.6-5.6)	Soil	04/28/21 11:30
S23782.13	JS-SB-05_SO-042821(5-6)	Soil	04/28/21 14:00
S23782.14	JS-SB-05_SO-042821(7-8)	Soil	04/28/21 14:05
S23782.15	JS-SB-06_SO-042821(12.1-13.1)	Soil	04/28/21 14:50
S23782.16	JS-SB-07_SO-042921(12.4-13.4)	Soil	04/29/21 09:10
S23782.17	JS-SB-07_SO-042921(12.4-13.4) MS	Soil	04/29/21 09:10
S23782.18	JS-SB-07_SO-042921(12.4-13.4) MSD	Soil	04/29/21 09:10
S23782.19	DUP-01_SO-042921	Soil	04/29/21 00:01
S23782.20	JS-SB-08_SO-042921(4.2-5.2)	Soil	04/29/21 10:30
S23782.21	DUP-02_SO-042921	Soil	04/29/21 00:01
S23782.22	JS-SB-09_SO-043021(9-10)	Soil	04/30/21 09:05
S23782.23	JS-SB-09_SO-043021(10-11)	Soil	04/30/21 09:00
S23782.24	JS-SB-10_SO-043021(14-15)	Soil	04/30/21 10:30
S23782.25	JS-SB-11_SO-043021(12.4-13.4)	Soil	04/30/21 11:40
S23782.26	Trip Blank	Methanol	04/30/21 00:01

Lab Sample ID: S23782.08
Sample Tag: JS-SB-01_SO-042921(7.5-8.5)
Collected Date/Time: 04/29/2021 14:05
Matrix: Soil
COC Reference: 137336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/04/21 15:13	PTW	
Sample wt. (g) / Methanol (ml)*	10.097/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/04/21 18:35, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:09, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.8	107-13-1	
2-Butanone (MEK)	Not detected	930		ug/kg	61.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.8	75-71-8	

Lab Sample ID: S23782.08 (continued)
Sample Tag: JS-SB-01_SO-042921(7.5-8.5)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:09, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	61.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.8	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.8	109-99-9	
Chloroform	Not detected	60		ug/kg	61.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.8	56-23-5	
Benzene	Not detected	60		ug/kg	61.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.8	10061-01-5	
Toluene	Not detected	60		ug/kg	61.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.8	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.8		
o-Xylene	Not detected	60		ug/kg	61.8	95-47-6	
Styrene	Not detected	60		ug/kg	61.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.8	98-82-8	
Bromoform	Not detected	100		ug/kg	61.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.8	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.08 (continued)

Sample Tag: JS-SB-01_SO-042921(7.5-8.5)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:09, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.8	91-57-6	

Lab Sample ID: S23782.09
Sample Tag: JS-SB-02_SO-042721(11-12)
Collected Date/Time: 04/27/2021 14:30
Matrix: Soil
COC Reference: 137336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/04/21 15:13	PTW	
Sample wt. (g) / Methanol (ml)*	9.933/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/04/21 18:57, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.5	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.5	75-71-8	

Lab Sample ID: S23782.09 (continued)
Sample Tag: JS-SB-02_SO-042721(11-12)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	61.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.5	109-99-9	
Chloroform	Not detected	60		ug/kg	61.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.5	56-23-5	
Benzene	Not detected	60		ug/kg	61.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.5	10061-01-5	
Toluene	Not detected	60		ug/kg	61.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.5	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.5		
o-Xylene	Not detected	60		ug/kg	61.5	95-47-6	
Styrene	Not detected	60		ug/kg	61.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.5	98-82-8	
Bromoform	Not detected	100		ug/kg	61.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.5	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.09 (continued)
Sample Tag: JS-SB-02_SO-042721(11-12)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.5	91-57-6	

Lab Sample ID: S23782.10
Sample Tag: JS-SB-03_SO-042821(2-3)
Collected Date/Time: 04/28/2021 09:20
Matrix: Soil
COC Reference: 137336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/04/21 15:13	PTW	
Sample wt. (g) / Methanol (ml)*	9.922/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/04/21 19:19, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:54, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.4	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.4	75-71-8	

Lab Sample ID: S23782.10 (continued)
Sample Tag: JS-SB-03_SO-042821(2-3)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	65.4	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.4	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.4	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.4	109-99-9	
Chloroform	Not detected	70		ug/kg	65.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.4	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.4	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.4	56-23-5	
Benzene	Not detected	70		ug/kg	65.4	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.4	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.4	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.4	10061-01-5	
Toluene	Not detected	70		ug/kg	65.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.4	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65.4	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	65.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.4	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.4		
o-Xylene	Not detected	70		ug/kg	65.4	95-47-6	
Styrene	Not detected	70		ug/kg	65.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.4	98-82-8	
Bromoform	Not detected	100		ug/kg	65.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.4	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.4	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.4	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.4	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.10 (continued)
Sample Tag: JS-SB-03_SO-042821(2-3)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 19:54, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.4	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.4	91-57-6	

Lab Sample ID: S23782.11
Sample Tag: JS-SB-03_SO-042821(11.2-12.2)
Collected Date/Time: 04/28/2021 09:30
Matrix: Soil
COC Reference: 137336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.165/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 18:59, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 20:17, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.4	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.4	75-71-8	

Lab Sample ID: S23782.11 (continued)
Sample Tag: JS-SB-03_SO-042821(11.2-12.2)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 20:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	61.4	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.4	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.4	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.4	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.4	109-99-9	
Chloroform	Not detected	60		ug/kg	61.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.4	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.4	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.4	56-23-5	
Benzene	Not detected	60		ug/kg	61.4	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.4	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.4	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.4	10061-01-5	
Toluene	Not detected	60		ug/kg	61.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.4	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.4	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.4	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.4	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.4		
o-Xylene	Not detected	60		ug/kg	61.4	95-47-6	
Styrene	Not detected	60		ug/kg	61.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.4	98-82-8	
Bromoform	Not detected	100		ug/kg	61.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.4	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.4	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.4	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.4	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.11 (continued)

Sample Tag: JS-SB-03_SO-042821(11.2-12.2)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/07/21 20:17, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.4	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.4	91-57-6	

Lab Sample ID: S23782.12
Sample Tag: JS-SB-04_SO-042821(4.6-5.6)
Collected Date/Time: 04/28/2021 11:30
Matrix: Soil
COC Reference: 137336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.131/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 19:17, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 15:06, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.2	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	64.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.2	75-71-8	

Lab Sample ID: S23782.12 (continued)
Sample Tag: JS-SB-04_SO-042821(4.6-5.6)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 15:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	64.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.2	109-99-9	
Chloroform	Not detected	60		ug/kg	64.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.2	56-23-5	
Benzene	Not detected	60		ug/kg	64.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-01-5	
Toluene	Not detected	60		ug/kg	64.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.2		
o-Xylene	Not detected	60		ug/kg	64.2	95-47-6	
Styrene	Not detected	60		ug/kg	64.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.2	98-82-8	
Bromoform	Not detected	100		ug/kg	64.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.2	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.2	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.12 (continued)

Sample Tag: JS-SB-04_SO-042821(4.6-5.6)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 15:06, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	64.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	64.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.2	91-57-6	

Lab Sample ID: S23782.13
Sample Tag: JS-SB-05_SO-042821(5-6)
Collected Date/Time: 04/28/2021 14:00
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.648/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/06/21 03:11, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	8,800	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	12,600	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	5,100	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 21:52, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	2,000		ug/kg	577	60-29-7	Y
Acetone	Not detected	10,000		ug/kg	577	67-64-1	Y
Methyl iodide	Not detected	1,000		ug/kg	577	74-88-4	Y
Carbon disulfide	Not detected	3,000		ug/kg	577	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	2,000		ug/kg	577	1634-04-4	Y
Acrylonitrile	Not detected	1,000		ug/kg	577	107-13-1	Y
2-Butanone (MEK)	Not detected	8,700		ug/kg	577	78-93-3	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S23782.13 (continued)
Sample Tag: JS-SB-05_SO-042821(5-6)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 21:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dichlorodifluoromethane	Not detected	3,000		ug/kg	577	75-71-8	Y
Chloromethane	Not detected	3,000		ug/kg	577	74-87-3	Y
Vinyl chloride	Not detected	600		ug/kg	577	75-01-4	Y
Bromomethane	Not detected	2,000		ug/kg	577	74-83-9	Y
Chloroethane	Not detected	3,000		ug/kg	577	75-00-3	Y
Trichlorofluoromethane	Not detected	1,000		ug/kg	577	75-69-4	Y
1,1-Dichloroethene	Not detected	600		ug/kg	577	75-35-4	Y
Methylene chloride	Not detected	1,000		ug/kg	577	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	600		ug/kg	577	156-60-5	Y
1,1-Dichloroethane	Not detected	600		ug/kg	577	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	600		ug/kg	577	156-59-2	Y
Tetrahydrofuran*	Not detected	10,000		ug/kg	577	109-99-9	Y
Chloroform	Not detected	600		ug/kg	577	67-66-3	Y
Bromochloromethane	Not detected	1,000		ug/kg	577	74-97-5	Y
1,1,1-Trichloroethane	Not detected	600		ug/kg	577	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	30,000		ug/kg	577	108-10-1	Y
2-Hexanone	Not detected	30,000		ug/kg	577	591-78-6	Y
Carbon tetrachloride	Not detected	600		ug/kg	577	56-23-5	Y
Benzene	Not detected	600		ug/kg	577	71-43-2	Y
1,2-Dichloroethane	Not detected	600		ug/kg	577	107-06-2	Y
Trichloroethene	Not detected	600		ug/kg	577	79-01-6	Y
1,2-Dichloropropane	Not detected	600		ug/kg	577	78-87-5	Y
Bromodichloromethane	Not detected	1,000		ug/kg	577	75-27-4	Y
Dibromomethane	Not detected	3,000		ug/kg	577	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	600		ug/kg	577	10061-01-5	Y
Toluene	Not detected	600		ug/kg	577	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	600		ug/kg	577	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	600		ug/kg	577	79-00-5	Y
Tetrachloroethene	Not detected	600		ug/kg	577	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	600		ug/kg	577	110-57-6	Y
Dibromochloromethane	Not detected	1,000		ug/kg	577	124-48-1	Y
1,2-Dibromoethane	Not detected	200		ug/kg	577	106-93-4	YM
Chlorobenzene	Not detected	600		ug/kg	577	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	1,000		ug/kg	577	630-20-6	Y
Ethylbenzene	9,000	600		ug/kg	577	100-41-4	Y
p,m-Xylene	18,000	1,000		ug/kg	577		Y
o-Xylene	Not detected	600		ug/kg	577	95-47-6	Y
Styrene	Not detected	600		ug/kg	577	100-42-5	Y
Isopropylbenzene	Not detected	3,000		ug/kg	577	98-82-8	Y
Bromoform	Not detected	1,000		ug/kg	577	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	600		ug/kg	577	79-34-5	Y
1,2,3-Trichloropropane	Not detected	1,000		ug/kg	577	96-18-4	Y
n-Propylbenzene	4,600	600		ug/kg	577	103-65-1	Y
Bromobenzene	Not detected	1,000		ug/kg	577	108-86-1	Y
1,3,5-Trimethylbenzene	6,000	600		ug/kg	577	108-67-8	Y
tert-Butylbenzene	Not detected	600		ug/kg	577	98-06-6	Y
1,2,4-Trimethylbenzene	6,700	600		ug/kg	577	95-63-6	Y
sec-Butylbenzene	Not detected	600		ug/kg	577	135-98-8	Y

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Lab Sample ID: S23782.13 (continued)

Sample Tag: JS-SB-05_SO-042821(5-6)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 21:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p-Isopropyltoluene	Not detected	1,000		ug/kg	577	99-87-6	Y
1,3-Dichlorobenzene	Not detected	1,000		ug/kg	577	541-73-1	Y
1,4-Dichlorobenzene	Not detected	1,000		ug/kg	577	106-46-7	Y
1,2-Dichlorobenzene	Not detected	1,000		ug/kg	577	95-50-1	Y
1,2,3-Trimethylbenzene	6,900	600		ug/kg	577	526-73-8	Y
n-Butylbenzene	3,900	600		ug/kg	577	104-51-8	Y
Hexachloroethane	Not detected	3,000		ug/kg	577	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	3,000		ug/kg	577	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	3,800		ug/kg	577	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	3,800		ug/kg	577	87-61-6	Y
Naphthalene	10,000	3,000		ug/kg	577	91-20-3	Y
2-Methylnaphthalene	12,000	1,000		ug/kg	577	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S23782.14
Sample Tag: JS-SB-05_SO-042821(7-8)
Collected Date/Time: 04/28/2021 14:05
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.185/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 19:35, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	14,700	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	17,600	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	7,100	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/11/21 15:13, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10,000		ug/kg	3070	60-29-7	Y
Acetone	Not detected	60,000		ug/kg	3070	67-64-1	Y
Methyl iodide	Not detected	6,000		ug/kg	3070	74-88-4	Y
Carbon disulfide	Not detected	20,000		ug/kg	3070	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	10,000		ug/kg	3070	1634-04-4	Y
Acrylonitrile	Not detected	6,000		ug/kg	3070	107-13-1	Y
2-Butanone (MEK)	Not detected	46,000		ug/kg	3070	78-93-3	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S23782.14 (continued)
Sample Tag: JS-SB-05_SO-042821(7-8)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/11/21 15:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dichlorodifluoromethane	Not detected	20,000		ug/kg	3070	75-71-8	Y
Chloromethane	Not detected	20,000		ug/kg	3070	74-87-3	Y
Vinyl chloride	Not detected	3,000		ug/kg	3070	75-01-4	Y
Bromomethane	Not detected	10,000		ug/kg	3070	74-83-9	Y
Chloroethane	Not detected	20,000		ug/kg	3070	75-00-3	Y
Trichlorofluoromethane	Not detected	6,000		ug/kg	3070	75-69-4	Y
1,1-Dichloroethene	Not detected	3,000		ug/kg	3070	75-35-4	Y
Methylene chloride	Not detected	6,000		ug/kg	3070	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	3,000		ug/kg	3070	156-60-5	Y
1,1-Dichloroethane	Not detected	3,000		ug/kg	3070	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	3,000		ug/kg	3070	156-59-2	Y
Tetrahydrofuran*	Not detected	60,000		ug/kg	3070	109-99-9	Y
Chloroform	Not detected	3,000		ug/kg	3070	67-66-3	Y
Bromochloromethane	Not detected	6,000		ug/kg	3070	74-97-5	Y
1,1,1-Trichloroethane	Not detected	3,000		ug/kg	3070	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	200,000		ug/kg	3070	108-10-1	Y
2-Hexanone	Not detected	200,000		ug/kg	3070	591-78-6	Y
Carbon tetrachloride	Not detected	3,000		ug/kg	3070	56-23-5	Y
Benzene	Not detected	3,000		ug/kg	3070	71-43-2	Y
1,2-Dichloroethane	Not detected	3,000		ug/kg	3070	107-06-2	Y
Trichloroethene	Not detected	3,000		ug/kg	3070	79-01-6	Y
1,2-Dichloropropane	Not detected	3,000		ug/kg	3070	78-87-5	Y
Bromodichloromethane	Not detected	6,000		ug/kg	3070	75-27-4	Y
Dibromomethane	Not detected	20,000		ug/kg	3070	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	3,000		ug/kg	3070	10061-01-5	Y
Toluene	Not detected	3,000		ug/kg	3070	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	3,000		ug/kg	3070	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	3,000		ug/kg	3070	79-00-5	Y
Tetrachloroethene	Not detected	3,000		ug/kg	3070	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	3,000		ug/kg	3070	110-57-6	Y
Dibromochloromethane	Not detected	6,000		ug/kg	3070	124-48-1	Y
1,2-Dibromoethane	Not detected	1,000		ug/kg	3070	106-93-4	YM
Chlorobenzene	Not detected	3,000		ug/kg	3070	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	6,000		ug/kg	3070	630-20-6	Y
Ethylbenzene	48,000	3,000		ug/kg	3070	100-41-4	Y
p,m-Xylene	220,000	6,000		ug/kg	3070		Y
o-Xylene	Not detected	3,000		ug/kg	3070	95-47-6	Y
Styrene	Not detected	3,000		ug/kg	3070	100-42-5	Y
Isopropylbenzene	Not detected	20,000		ug/kg	3070	98-82-8	Y
Bromoform	Not detected	6,000		ug/kg	3070	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	3,000		ug/kg	3070	79-34-5	Y
1,2,3-Trichloropropane	Not detected	6,000		ug/kg	3070	96-18-4	Y
n-Propylbenzene	19,000	3,000		ug/kg	3070	103-65-1	Y
Bromobenzene	Not detected	6,000		ug/kg	3070	108-86-1	Y
1,3,5-Trimethylbenzene	48,000	3,000		ug/kg	3070	108-67-8	Y
tert-Butylbenzene	Not detected	3,000		ug/kg	3070	98-06-6	Y
1,2,4-Trimethylbenzene	136,000	3,000		ug/kg	3070	95-63-6	Y
sec-Butylbenzene	Not detected	3,000		ug/kg	3070	135-98-8	Y

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Lab Sample ID: S23782.14 (continued)
Sample Tag: JS-SB-05_SO-042821(7-8)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/11/21 15:13, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p-Isopropyltoluene	Not detected	6,000		ug/kg	3070	99-87-6	Y
1,3-Dichlorobenzene	Not detected	6,000		ug/kg	3070	541-73-1	Y
1,4-Dichlorobenzene	Not detected	6,000		ug/kg	3070	106-46-7	Y
1,2-Dichlorobenzene	Not detected	6,000		ug/kg	3070	95-50-1	Y
1,2,3-Trimethylbenzene	31,000	3,000		ug/kg	3070	526-73-8	Y
n-Butylbenzene	15,000	3,000		ug/kg	3070	104-51-8	Y
Hexachloroethane	Not detected	20,000		ug/kg	3070	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	20,000		ug/kg	3070	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	20,000		ug/kg	3070	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	20,000		ug/kg	3070	87-61-6	Y
Naphthalene	40,000	20,000		ug/kg	3070	91-20-3	Y
2-Methylnaphthalene	40,000	6,000		ug/kg	3070	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S23782.15
Sample Tag: JS-SB-06_SO-042821(12.1-13.1)
Collected Date/Time: 04/28/2021 14:50
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.215/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 19:54, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/11/21 14:50, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	59.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59.9	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	59.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59.9	75-71-8	

Lab Sample ID: S23782.15 (continued)
Sample Tag: JS-SB-06_SO-042821(12.1-13.1)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/11/21 14:50, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	59.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	59.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.9	109-99-9	
Chloroform	Not detected	60		ug/kg	59.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.9	56-23-5	
Benzene	Not detected	60		ug/kg	59.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59.9	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.9	10061-01-5	
Toluene	Not detected	60		ug/kg	59.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	59.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	59.9		
o-Xylene	Not detected	60		ug/kg	59.9	95-47-6	
Styrene	Not detected	60		ug/kg	59.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59.9	98-82-8	
Bromoform	Not detected	100		ug/kg	59.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	59.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	59.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.9	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.15 (continued)

Sample Tag: JS-SB-06_SO-042821(12.1-13.1)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/11/21 14:50, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	59.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	59.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	59.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	59.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	59.9	91-57-6	

Lab Sample ID: S23782.16
Sample Tag: JS-SB-07_SO-042921(12.4-13.4)
Collected Date/Time: 04/29/2021 09:10
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.015/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 20:12, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 16:36, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.6	107-13-1	
2-Butanone (MEK)	Not detected	950		ug/kg	63.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.6	75-71-8	

Lab Sample ID: S23782.16 (continued)
Sample Tag: JS-SB-07_SO-042921(12.4-13.4)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 16:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	63.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.6	109-99-9	
Chloroform	Not detected	60		ug/kg	63.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.6	56-23-5	
Benzene	Not detected	60		ug/kg	63.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.6	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.6	10061-01-5	
Toluene	Not detected	60		ug/kg	63.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.6	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.6		
o-Xylene	Not detected	60		ug/kg	63.6	95-47-6	
Styrene	Not detected	60		ug/kg	63.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.6	98-82-8	
Bromoform	Not detected	100		ug/kg	63.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.6	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.16 (continued)

Sample Tag: JS-SB-07_SO-042921(12.4-13.4)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 16:36, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.6	91-57-6	

Lab Sample ID: S23782.17
Sample Tag: JS-SB-07_SO-042921(12.4-13.4) MS
Collected Date/Time: 04/29/2021 09:10
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	9.890/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 20:30, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	2,300	300		ug/kg	10	83-32-9	1
Acenaphthylene	2,200	300		ug/kg	10	208-96-8	1
Anthracene	2,600	300		ug/kg	10	120-12-7	1
Benzo(a)anthracene	2,100	300		ug/kg	10	56-55-3	1
Benzo(a)pyrene	2,100	300		ug/kg	10	50-32-8	1
Benzo(b)fluoranthene	1,700	300		ug/kg	10	205-99-2	1
Benzo(k)fluoranthene	2,300	300		ug/kg	10	207-08-9	1
Benzo(ghi)perylene	1,800	300		ug/kg	10	191-24-2	1
Chrysene	2,300	300		ug/kg	10	218-01-9	1
Dibenzo(ah)anthracene	1,800	300		ug/kg	10	53-70-3	1
Fluoranthene	2,300	300		ug/kg	10	206-44-0	1
Fluorene	2,200	300		ug/kg	10	86-73-7	1
Indeno(1,2,3-cd)pyrene	1,800	300		ug/kg	10	193-39-5	1
Naphthalene	1,900	300		ug/kg	10	91-20-3	1
Phenanthrene	2,200	300		ug/kg	10	85-01-8	1
Pyrene	2,300	300		ug/kg	10	129-00-0	1
2-Methylnaphthalene	2,000	300		ug/kg	10	91-57-6	1
1-Methylnaphthalene	2,100	300		ug/kg	10	90-12-0	1

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 13:12, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	3,800	300		ug/kg	64.3	60-29-7	2
Acetone	4,000	1,000		ug/kg	64.3	67-64-1	2
Methyl iodide	3,300	100		ug/kg	64.3	74-88-4	2
Carbon disulfide	3,600	300		ug/kg	64.3	75-15-0	2
tert-Methyl butyl ether (MTBE)	3,500	300		ug/kg	64.3	1634-04-4	2
Acrylonitrile	3,500	100		ug/kg	64.3	107-13-1	2

1-Sample spiked at 2.5 mg/kg
2-Spiked at 3.22mg/kg

Lab Sample ID: S23782.17 (continued)

Sample Tag: JS-SB-07_SO-042921(12.4-13.4) MS

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 13:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Butanone (MEK)	3,080	960		ug/kg	64.3	78-93-3	1
Dichlorodifluoromethane	3,400	300		ug/kg	64.3	75-71-8	1
Chloromethane	3,100	300		ug/kg	64.3	74-87-3	1
Vinyl chloride	3,480	60		ug/kg	64.3	75-01-4	1
Bromomethane	3,200	300		ug/kg	64.3	74-83-9	1
Chloroethane	3,400	300		ug/kg	64.3	75-00-3	1
Trichlorofluoromethane	4,600	100		ug/kg	64.3	75-69-4	1
1,1-Dichloroethene	3,700	60		ug/kg	64.3	75-35-4	1
Methylene chloride	3,300	100		ug/kg	64.3	75-09-2	1
trans-1,2-Dichloroethene	3,630	60		ug/kg	64.3	156-60-5	1
1,1-Dichloroethane	3,610	60		ug/kg	64.3	75-34-3	1
cis-1,2-Dichloroethene	3,440	60		ug/kg	64.3	156-59-2	1
Tetrahydrofuran*	3,000	1,000		ug/kg	64.3	109-99-9	1
Chloroform	3,560	60		ug/kg	64.3	67-66-3	1
Bromochloromethane	3,400	100		ug/kg	64.3	74-97-5	1
1,1,1-Trichloroethane	3,700	60		ug/kg	64.3	71-55-6	1
4-Methyl-2-pentanone (MIBK)	3,000	3,000		ug/kg	64.3	108-10-1	1
2-Hexanone	3,000	3,000		ug/kg	64.3	591-78-6	1
Carbon tetrachloride	3,690	60		ug/kg	64.3	56-23-5	1
Benzene	3,510	60		ug/kg	64.3	71-43-2	1
1,2-Dichloroethane	3,620	60		ug/kg	64.3	107-06-2	1
Trichloroethene	3,460	60		ug/kg	64.3	79-01-6	1
1,2-Dichloropropane	3,540	60		ug/kg	64.3	78-87-5	1
Bromodichloromethane	3,600	100		ug/kg	64.3	75-27-4	1
Dibromomethane	3,100	300		ug/kg	64.3	74-95-3	1
cis-1,3-Dichloropropene	3,580	60		ug/kg	64.3	10061-01-5	1
Toluene	3,450	60		ug/kg	64.3	108-88-3	1
trans-1,3-Dichloropropene	3,600	60		ug/kg	64.3	10061-02-6	1
1,1,2-Trichloroethane	3,440	60		ug/kg	64.3	79-00-5	1
Tetrachloroethene	3,470	60		ug/kg	64.3	127-18-4	1
trans-1,4-Dichloro-2-butene	3,490	60		ug/kg	64.3	110-57-6	1
Dibromochloromethane	3,200	100		ug/kg	64.3	124-48-1	1
1,2-Dibromoethane	3,080	30		ug/kg	64.3	106-93-4	1M
Chlorobenzene	3,240	60		ug/kg	64.3	108-90-7	1
1,1,1,2-Tetrachloroethane	3,400	100		ug/kg	64.3	630-20-6	1
Ethylbenzene	3,400	60		ug/kg	64.3	100-41-4	1
p,m-Xylene	6,700	100		ug/kg	64.3		1
o-Xylene	3,410	60		ug/kg	64.3	95-47-6	1
Styrene	3,360	60		ug/kg	64.3	100-42-5	1
Isopropylbenzene	3,400	300		ug/kg	64.3	98-82-8	1
Bromoform	3,200	100		ug/kg	64.3	75-25-2	1
1,1,2,2-Tetrachloroethane	3,270	60		ug/kg	64.3	79-34-5	1
1,2,3-Trichloropropane	3,200	100		ug/kg	64.3	96-18-4	1
n-Propylbenzene	3,410	60		ug/kg	64.3	103-65-1	1
Bromobenzene	3,300	100		ug/kg	64.3	108-86-1	1
1,3,5-Trimethylbenzene	3,380	60		ug/kg	64.3	108-67-8	1
tert-Butylbenzene	3,380	60		ug/kg	64.3	98-06-6	1
1,2,4-Trimethylbenzene	3,380	60		ug/kg	64.3	95-63-6	1

1-Spiked at 3.22mg/kg

M-Result reported to MDL not RDL

Lab Sample ID: S23782.17 (continued)

Sample Tag: JS-SB-07_SO-042921(12.4-13.4) MS

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 13:12, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	3,400	60		ug/kg	64.3	135-98-8	1
p-Isopropyltoluene	3,400	100		ug/kg	64.3	99-87-6	1
1,3-Dichlorobenzene	3,400	100		ug/kg	64.3	541-73-1	1
1,4-Dichlorobenzene	3,400	100		ug/kg	64.3	106-46-7	1
1,2-Dichlorobenzene	3,400	100		ug/kg	64.3	95-50-1	1
1,2,3-Trimethylbenzene	3,340	60		ug/kg	64.3	526-73-8	1
n-Butylbenzene	3,480	60		ug/kg	64.3	104-51-8	1
Hexachloroethane	3,500	400		ug/kg	64.3	67-72-1	1
1,2-Dibromo-3-chloropropane	2,900	300		ug/kg	64.3	96-12-8	1
1,2,4-Trichlorobenzene	3,360	420		ug/kg	64.3	120-82-1	1
1,2,3-Trichlorobenzene	3,260	420		ug/kg	64.3	87-61-6	1
Naphthalene	3,100	300		ug/kg	64.3	91-20-3	1
2-Methylnaphthalene	3,100	100		ug/kg	64.3	91-57-6	1

1-Spiked at 3.22mg/kg

Lab Sample ID: S23782.18
Sample Tag: JS-SB-07_SO-042921(12.4-13.4) MSD
Collected Date/Time: 04/29/2021 09:10
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	9.292/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 20:48, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	1,900	300		ug/kg	10	83-32-9	1
Acenaphthylene	1,800	300		ug/kg	10	208-96-8	1
Anthracene	2,300	300		ug/kg	10	120-12-7	1
Benzo(a)anthracene	1,800	300		ug/kg	10	56-55-3	1
Benzo(a)pyrene	1,800	300		ug/kg	10	50-32-8	1
Benzo(b)fluoranthene	1,500	300		ug/kg	10	205-99-2	1
Benzo(k)fluoranthene	2,000	300		ug/kg	10	207-08-9	1
Benzo(ghi)perylene	1,500	300		ug/kg	10	191-24-2	1
Chrysene	2,000	300		ug/kg	10	218-01-9	1
Dibenzo(ah)anthracene	1,600	300		ug/kg	10	53-70-3	1
Fluoranthene	2,000	300		ug/kg	10	206-44-0	1
Fluorene	1,900	300		ug/kg	10	86-73-7	1
Indeno(1,2,3-cd)pyrene	1,500	300		ug/kg	10	193-39-5	1
Naphthalene	1,500	300		ug/kg	10	91-20-3	1
Phenanthrene	1,900	300		ug/kg	10	85-01-8	1
Pyrene	2,000	300		ug/kg	10	129-00-0	1
2-Methylnaphthalene	1,700	300		ug/kg	10	91-57-6	1
1-Methylnaphthalene	1,800	300		ug/kg	10	90-12-0	1

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 13:35, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	3,800	300		ug/kg	68	60-29-7	2
Acetone	4,000	1,000		ug/kg	68	67-64-1	2
Methyl iodide	3,300	100		ug/kg	68	74-88-4	2
Carbon disulfide	3,500	300		ug/kg	68	75-15-0	2
tert-Methyl butyl ether (MTBE)	3,500	300		ug/kg	68	1634-04-4	2
Acrylonitrile	3,600	100		ug/kg	68	107-13-1	2

1-Sample spiked at 2.5 mg/kg
2-Spiked at 3.4mg/kg

Lab Sample ID: S23782.18 (continued)

Sample Tag: JS-SB-07_SO-042921(12.4-13.4) MSD

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 13:35, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Butanone (MEK)	3,100	1,000		ug/kg	68	78-93-3	1
Dichlorodifluoromethane	3,400	300		ug/kg	68	75-71-8	1
Chloromethane	3,100	300		ug/kg	68	74-87-3	1
Vinyl chloride	3,440	70		ug/kg	68	75-01-4	1
Bromomethane	3,200	300		ug/kg	68	74-83-9	1
Chloroethane	3,400	300		ug/kg	68	75-00-3	1
Trichlorofluoromethane	4,300	100		ug/kg	68	75-69-4	1
1,1-Dichloroethene	3,700	70		ug/kg	68	75-35-4	1
Methylene chloride	3,300	100		ug/kg	68	75-09-2	1
trans-1,2-Dichloroethene	3,640	70		ug/kg	68	156-60-5	1
1,1-Dichloroethane	3,610	70		ug/kg	68	75-34-3	1
cis-1,2-Dichloroethene	3,450	70		ug/kg	68	156-59-2	1
Tetrahydrofuran*	4,000	1,000		ug/kg	68	109-99-9	1
Chloroform	3,560	70		ug/kg	68	67-66-3	1
Bromochloromethane	3,400	100		ug/kg	68	74-97-5	1
1,1,1-Trichloroethane	3,710	70		ug/kg	68	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	68	108-10-1	1
2-Hexanone	Not detected	3,000		ug/kg	68	591-78-6	1
Carbon tetrachloride	3,620	70		ug/kg	68	56-23-5	1
Benzene	3,490	70		ug/kg	68	71-43-2	1
1,2-Dichloroethane	3,610	70		ug/kg	68	107-06-2	1
Trichloroethene	3,450	70		ug/kg	68	79-01-6	1
1,2-Dichloropropane	3,540	70		ug/kg	68	78-87-5	1
Bromodichloromethane	3,500	100		ug/kg	68	75-27-4	1
Dibromomethane	3,100	300		ug/kg	68	74-95-3	1
cis-1,3-Dichloropropene	3,560	70		ug/kg	68	10061-01-5	1
Toluene	3,450	70		ug/kg	68	108-88-3	1
trans-1,3-Dichloropropene	3,610	70		ug/kg	68	10061-02-6	1
1,1,2-Trichloroethane	3,420	70		ug/kg	68	79-00-5	1
Tetrachloroethene	3,450	70		ug/kg	68	127-18-4	1
trans-1,4-Dichloro-2-butene	3,530	70		ug/kg	68	110-57-6	1
Dibromochloromethane	3,100	100		ug/kg	68	124-48-1	1
1,2-Dibromoethane	3,080	30		ug/kg	68	106-93-4	1M
Chlorobenzene	3,220	70		ug/kg	68	108-90-7	1
1,1,1,2-Tetrachloroethane	3,300	100		ug/kg	68	630-20-6	1
Ethylbenzene	3,310	70		ug/kg	68	100-41-4	1
p,m-Xylene	6,500	100		ug/kg	68		1
o-Xylene	3,280	70		ug/kg	68	95-47-6	1
Styrene	3,260	70		ug/kg	68	100-42-5	1
Isopropylbenzene	3,300	300		ug/kg	68	98-82-8	1
Bromoform	3,200	100		ug/kg	68	75-25-2	1
1,1,2,2-Tetrachloroethane	3,230	70		ug/kg	68	79-34-5	1
1,2,3-Trichloropropane	3,300	100		ug/kg	68	96-18-4	1
n-Propylbenzene	3,360	70		ug/kg	68	103-65-1	1
Bromobenzene	3,300	100		ug/kg	68	108-86-1	1
1,3,5-Trimethylbenzene	3,260	70		ug/kg	68	108-67-8	1
tert-Butylbenzene	3,240	70		ug/kg	68	98-06-6	1
1,2,4-Trimethylbenzene	3,260	70		ug/kg	68	95-63-6	1

1-Spiked at 3.4mg/kg

M-Result reported to MDL not RDL

Lab Sample ID: S23782.18 (continued)

Sample Tag: JS-SB-07_SO-042921(12.4-13.4) MSD

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 13:35, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
sec-Butylbenzene	3,310	70		ug/kg	68	135-98-8	1
p-Isopropyltoluene	3,300	100		ug/kg	68	99-87-6	1
1,3-Dichlorobenzene	3,300	100		ug/kg	68	541-73-1	1
1,4-Dichlorobenzene	3,400	100		ug/kg	68	106-46-7	1
1,2-Dichlorobenzene	3,300	100		ug/kg	68	95-50-1	1
1,2,3-Trimethylbenzene	3,280	70		ug/kg	68	526-73-8	1
n-Butylbenzene	3,390	70		ug/kg	68	104-51-8	1
Hexachloroethane	3,500	400		ug/kg	68	67-72-1	1
1,2-Dibromo-3-chloropropane	3,000	300		ug/kg	68	96-12-8	1
1,2,4-Trichlorobenzene	3,320	450		ug/kg	68	120-82-1	1
1,2,3-Trichlorobenzene	3,260	450		ug/kg	68	87-61-6	1
Naphthalene	3,100	300		ug/kg	68	91-20-3	1
2-Methylnaphthalene	3,400	100		ug/kg	68	91-57-6	1

1-Spiked at 3.4mg/kg

Lab Sample ID: S23782.19
Sample Tag: DUP-01_SO-042921
Collected Date/Time: 04/29/2021 00:01
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	9.813/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 21:06, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 16:59, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.4	107-13-1	
2-Butanone (MEK)	Not detected	950		ug/kg	63.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.4	75-71-8	

Lab Sample ID: S23782.19 (continued)
Sample Tag: DUP-01_SO-042921

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 16:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	63.4	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.4	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.4	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.4	109-99-9	
Chloroform	Not detected	60		ug/kg	63.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.4	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.4	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.4	56-23-5	
Benzene	Not detected	60		ug/kg	63.4	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.4	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.4	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.4	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.4	10061-01-5	
Toluene	Not detected	60		ug/kg	63.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.4	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.4	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.4	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.4		
o-Xylene	Not detected	60		ug/kg	63.4	95-47-6	
Styrene	Not detected	60		ug/kg	63.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.4	98-82-8	
Bromoform	Not detected	100		ug/kg	63.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.4	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.4	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.4	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.4	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.19 (continued)

Sample Tag: DUP-01_SO-042921

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 16:59, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.4	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.4	91-57-6	

Lab Sample ID: S23782.20
Sample Tag: JS-SB-08_SO-042921(4.2-5.2)
Collected Date/Time: 04/29/2021 10:30
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	9.418/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 21:25, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 17:21, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	72.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	72.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	72.7	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	72.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	72.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	72.7	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	72.7	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	72.7	75-71-8	

Lab Sample ID: S23782.20 (continued)
Sample Tag: JS-SB-08_SO-042921(4.2-5.2)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 17:21, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	400		ug/kg	72.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	72.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	72.7	74-83-9	
Chloroethane	Not detected	400		ug/kg	72.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	72.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	72.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	72.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	72.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	72.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	72.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	72.7	109-99-9	
Chloroform	Not detected	70		ug/kg	72.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	72.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	72.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	72.7	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	72.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	72.7	56-23-5	
Benzene	Not detected	70		ug/kg	72.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	72.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	72.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	72.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	72.7	75-27-4	
Dibromomethane	Not detected	400		ug/kg	72.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	72.7	10061-01-5	
Toluene	Not detected	70		ug/kg	72.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	72.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	72.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	72.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	72.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	72.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	72.7	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	72.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	72.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	72.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	72.7		
o-Xylene	Not detected	70		ug/kg	72.7	95-47-6	
Styrene	Not detected	70		ug/kg	72.7	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	72.7	98-82-8	
Bromoform	Not detected	100		ug/kg	72.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	72.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	72.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	72.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	72.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	72.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	72.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	72.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	72.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	72.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	72.7	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.20 (continued)

Sample Tag: JS-SB-08_SO-042921(4.2-5.2)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 17:21, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	72.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	72.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	72.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	72.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	72.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	72.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	480		ug/kg	72.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	480		ug/kg	72.7	87-61-6	
Naphthalene	Not detected	400		ug/kg	72.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	72.7	91-57-6	

Lab Sample ID: S23782.21
Sample Tag: DUP-02_SO-042921
Collected Date/Time: 04/29/2021 00:01
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/05/21 17:30	TTV	
Sample wt. (g) / Methanol (ml)*	10.068/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/05/21 21:43, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 17:44, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.2	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.2	75-71-8	

Lab Sample ID: S23782.21 (continued)
Sample Tag: DUP-02_SO-042921

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 17:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	67.2	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.2	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.2	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.2	109-99-9	
Chloroform	Not detected	70		ug/kg	67.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.2	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.2	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.2	56-23-5	
Benzene	Not detected	70		ug/kg	67.2	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.2	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.2	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.2	10061-01-5	
Toluene	Not detected	70		ug/kg	67.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.2	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	67.2	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.2	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.2		
o-Xylene	Not detected	70		ug/kg	67.2	95-47-6	
Styrene	Not detected	70		ug/kg	67.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.2	98-82-8	
Bromoform	Not detected	100		ug/kg	67.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.2	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.2	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.2	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.2	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.21 (continued)

Sample Tag: DUP-02_SO-042921

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 17:44, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.2	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	67.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	67.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.2	91-57-6	

Lab Sample ID: S23782.22
Sample Tag: JS-SB-09_SO-043021(9-10)
Collected Date/Time: 04/30/2021 09:05
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/07/21 17:00	JWR	
Sample wt. (g) / Methanol (ml)*	10.085/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/07/21 20:08, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	1,500	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	1,000	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	500	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:07, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	3,000		ug/kg	632	60-29-7	Y
Acetone	Not detected	10,000		ug/kg	632	67-64-1	Y
Methyl iodide	Not detected	1,000		ug/kg	632	74-88-4	Y
Carbon disulfide	Not detected	3,000		ug/kg	632	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	3,000		ug/kg	632	1634-04-4	Y
Acrylonitrile	Not detected	1,000		ug/kg	632	107-13-1	Y
2-Butanone (MEK)	Not detected	9,500		ug/kg	632	78-93-3	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S23782.22 (continued)
Sample Tag: JS-SB-09_SO-043021(9-10)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dichlorodifluoromethane	Not detected	3,000		ug/kg	632	75-71-8	Y
Chloromethane	Not detected	3,000		ug/kg	632	74-87-3	Y
Vinyl chloride	Not detected	600		ug/kg	632	75-01-4	Y
Bromomethane	Not detected	3,000		ug/kg	632	74-83-9	Y
Chloroethane	Not detected	3,000		ug/kg	632	75-00-3	Y
Trichlorofluoromethane	Not detected	1,000		ug/kg	632	75-69-4	Y
1,1-Dichloroethene	Not detected	600		ug/kg	632	75-35-4	Y
Methylene chloride	Not detected	1,000		ug/kg	632	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	600		ug/kg	632	156-60-5	Y
1,1-Dichloroethane	Not detected	600		ug/kg	632	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	600		ug/kg	632	156-59-2	Y
Tetrahydrofuran*	Not detected	10,000		ug/kg	632	109-99-9	Y
Chloroform	Not detected	600		ug/kg	632	67-66-3	Y
Bromochloromethane	Not detected	1,000		ug/kg	632	74-97-5	Y
1,1,1-Trichloroethane	Not detected	600		ug/kg	632	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	30,000		ug/kg	632	108-10-1	Y
2-Hexanone	Not detected	30,000		ug/kg	632	591-78-6	Y
Carbon tetrachloride	Not detected	600		ug/kg	632	56-23-5	Y
Benzene	Not detected	600		ug/kg	632	71-43-2	Y
1,2-Dichloroethane	Not detected	600		ug/kg	632	107-06-2	Y
Trichloroethene	Not detected	600		ug/kg	632	79-01-6	Y
1,2-Dichloropropane	Not detected	600		ug/kg	632	78-87-5	Y
Bromodichloromethane	Not detected	1,000		ug/kg	632	75-27-4	Y
Dibromomethane	Not detected	3,000		ug/kg	632	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	600		ug/kg	632	10061-01-5	Y
Toluene	Not detected	600		ug/kg	632	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	600		ug/kg	632	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	600		ug/kg	632	79-00-5	Y
Tetrachloroethene	Not detected	600		ug/kg	632	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	600		ug/kg	632	110-57-6	Y
Dibromochloromethane	Not detected	1,000		ug/kg	632	124-48-1	Y
1,2-Dibromoethane	Not detected	300		ug/kg	632	106-93-4	YM
Chlorobenzene	Not detected	600		ug/kg	632	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	1,000		ug/kg	632	630-20-6	Y
Ethylbenzene	2,100	600		ug/kg	632	100-41-4	Y
p,m-Xylene	3,000	1,000		ug/kg	632		Y
o-Xylene	Not detected	600		ug/kg	632	95-47-6	Y
Styrene	Not detected	600		ug/kg	632	100-42-5	Y
Isopropylbenzene	Not detected	3,000		ug/kg	632	98-82-8	Y
Bromoform	Not detected	1,000		ug/kg	632	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	600		ug/kg	632	79-34-5	Y
1,2,3-Trichloropropane	Not detected	1,000		ug/kg	632	96-18-4	Y
n-Propylbenzene	1,900	600		ug/kg	632	103-65-1	Y
Bromobenzene	Not detected	1,000		ug/kg	632	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	600		ug/kg	632	108-67-8	Y
tert-Butylbenzene	Not detected	600		ug/kg	632	98-06-6	Y
1,2,4-Trimethylbenzene	11,400	600		ug/kg	632	95-63-6	Y
sec-Butylbenzene	Not detected	600		ug/kg	632	135-98-8	Y

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Lab Sample ID: S23782.22 (continued)

Sample Tag: JS-SB-09_SO-043021(9-10)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:07, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p-Isopropyltoluene	Not detected	1,000		ug/kg	632	99-87-6	Y
1,3-Dichlorobenzene	Not detected	1,000		ug/kg	632	541-73-1	Y
1,4-Dichlorobenzene	Not detected	1,000		ug/kg	632	106-46-7	Y
1,2-Dichlorobenzene	Not detected	1,000		ug/kg	632	95-50-1	Y
1,2,3-Trimethylbenzene	1,700	600		ug/kg	632	526-73-8	Y
n-Butylbenzene	800	600		ug/kg	632	104-51-8	Y
Hexachloroethane	Not detected	4,000		ug/kg	632	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	3,000		ug/kg	632	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	4,200		ug/kg	632	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	4,200		ug/kg	632	87-61-6	Y
Naphthalene	Not detected	3,000		ug/kg	632	91-20-3	Y
2-Methylnaphthalene	1,000	1,000		ug/kg	632	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S23782.23
Sample Tag: JS-SB-09_SO-043021(10-11)
Collected Date/Time: 04/30/2021 09:00
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/07/21 17:00	JWR	
Sample wt. (g) / Methanol (ml)*	10.862/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/07/21 20:26, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	700	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	500	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	59.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59.1	107-13-1	
2-Butanone (MEK)	Not detected	890		ug/kg	59.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59.1	75-71-8	

Lab Sample ID: S23782.23 (continued)
Sample Tag: JS-SB-09_SO-043021(10-11)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	59.1	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59.1	75-01-4	
Bromomethane	Not detected	200		ug/kg	59.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.1	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.1	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.1	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.1	109-99-9	
Chloroform	Not detected	60		ug/kg	59.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59.1	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.1	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.1	56-23-5	
Benzene	450	60		ug/kg	59.1	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.1	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59.1	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59.1	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.1	10061-01-5	
Toluene	Not detected	60		ug/kg	59.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.1	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59.1	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59.1	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.1	630-20-6	
Ethylbenzene	4,770	60		ug/kg	59.1	100-41-4	
p,m-Xylene	4,500	100		ug/kg	59.1		
o-Xylene	100	60		ug/kg	59.1	95-47-6	
Styrene	Not detected	60		ug/kg	59.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59.1	98-82-8	
Bromoform	Not detected	100		ug/kg	59.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.1	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.1	96-18-4	
n-Propylbenzene	1,490	60		ug/kg	59.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59.1	108-86-1	
1,3,5-Trimethylbenzene	680	60		ug/kg	59.1	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59.1	98-06-6	
1,2,4-Trimethylbenzene	5,090	60		ug/kg	59.1	95-63-6	
sec-Butylbenzene	100	60		ug/kg	59.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.1	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.23 (continued)

Sample Tag: JS-SB-09_SO-043021(10-11)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.1	95-50-1	
1,2,3-Trimethylbenzene	2,040	60		ug/kg	59.1	526-73-8	
n-Butylbenzene	510	60		ug/kg	59.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.1	87-61-6	
Naphthalene	1,600	300		ug/kg	59.1	91-20-3	
2-Methylnaphthalene	900	100		ug/kg	59.1	91-57-6	

Lab Sample ID: S23782.24
Sample Tag: JS-SB-10_SO-043021(14-15)
Collected Date/Time: 04/30/2021 10:30
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/07/21 17:00	JWR	
Sample wt. (g) / Methanol (ml)*	10.200/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/07/21 20:44, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:52, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.8	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.8	75-71-8	

Lab Sample ID: S23782.24 (continued)
Sample Tag: JS-SB-10_SO-043021(14-15)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	58.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.8	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.8	109-99-9	
Chloroform	Not detected	60		ug/kg	58.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.8	56-23-5	
Benzene	Not detected	60		ug/kg	58.8	71-43-2	
1,2-Dichloroethane	110	60		ug/kg	58.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.8	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.8	10061-01-5	
Toluene	Not detected	60		ug/kg	58.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.8	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.8		
o-Xylene	Not detected	60		ug/kg	58.8	95-47-6	
Styrene	Not detected	60		ug/kg	58.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.8	98-82-8	
Bromoform	Not detected	100		ug/kg	58.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.8	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.24 (continued)
Sample Tag: JS-SB-10_SO-043021(14-15)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 18:52, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.8	91-57-6	

Lab Sample ID: S23782.25
Sample Tag: JS-SB-11_SO-043021(12.4-13.4)
Collected Date/Time: 04/30/2021 11:40
Matrix: Soil
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
PNA Extraction*	Completed	SW3546	05/07/21 17:00	JWR	
Sample wt. (g) / Methanol (ml)*	10.343/10	SW5035A	05/05/21 10:19	HAS	

Inorganics

Method: SM2540B, Run Date: 05/04/21 17:40, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 05/07/21 21:02, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	
1-Methylnaphthalene	Not detected	300		ug/kg	10	90-12-0	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 19:14, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	59.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59.3	107-13-1	
2-Butanone (MEK)	Not detected	890		ug/kg	59.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59.3	75-71-8	

Lab Sample ID: S23782.25 (continued)
Sample Tag: JS-SB-11_SO-043021(12.4-13.4)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 19:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	300		ug/kg	59.3	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59.3	75-01-4	
Bromomethane	Not detected	200		ug/kg	59.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.3	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.3	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.3	109-99-9	
Chloroform	Not detected	60		ug/kg	59.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59.3	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.3	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.3	56-23-5	
Benzene	Not detected	60		ug/kg	59.3	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.3	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59.3	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59.3	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.3	10061-01-5	
Toluene	Not detected	60		ug/kg	59.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.3	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59.3	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59.3	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.3	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	59.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	59.3		
o-Xylene	Not detected	60		ug/kg	59.3	95-47-6	
Styrene	Not detected	60		ug/kg	59.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59.3	98-82-8	
Bromoform	Not detected	100		ug/kg	59.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.3	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	59.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.3	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.3	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	59.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.3	541-73-1	

M-Result reported to MDL not RDL

Lab Sample ID: S23782.25 (continued)

Sample Tag: JS-SB-11_SO-043021(12.4-13.4)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 19:14, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.3	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	59.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	59.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	59.3	91-57-6	

Lab Sample ID: S23782.26
Sample Tag: Trip Blank
Collected Date/Time: 04/30/2021 00:01
Matrix: Methanol
COC Reference: 137338

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	6.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10/10	SW5035A	05/05/21 10:19	HAS	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 14:43, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	50	60-29-7	
Acetone	Not detected	1,000		ug/kg	50	67-64-1	
Methyl iodide	Not detected	100		ug/kg	50	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	50	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	50	107-13-1	
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	50	75-71-8	
Chloromethane	Not detected	300		ug/kg	50	74-87-3	
Vinyl chloride	Not detected	50		ug/kg	50	75-01-4	
Bromomethane	Not detected	200		ug/kg	50	74-83-9	
Chloroethane	Not detected	300		ug/kg	50	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4	
Methylene chloride	Not detected	100		ug/kg	50	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	50	109-99-9	
Chloroform	Not detected	50		ug/kg	50	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	50	74-97-5	
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5	
Benzene	Not detected	50		ug/kg	50	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2	
Trichloroethene	Not detected	50		ug/kg	50	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	50	75-27-4	
Dibromomethane	Not detected	300		ug/kg	50	74-95-3	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5	
Toluene	Not detected	50		ug/kg	50	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	50	110-57-6	

Lab Sample ID: S23782.26 (continued)

Sample Tag: Trip Blank

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 05/10/21 14:43, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	100		ug/kg	50	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	50	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	50	630-20-6	
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	50		
o-Xylene	Not detected	50		ug/kg	50	95-47-6	
Styrene	Not detected	50		ug/kg	50	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	50	98-82-8	
Bromoform	Not detected	100		ug/kg	50	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	50	96-18-4	
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1	
Bromobenzene	Not detected	100		ug/kg	50	108-86-1	
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	50	108-67-8	
tert-Butylbenzene	Not detected	50		ug/kg	50	98-06-6	
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	50	95-63-6	
sec-Butylbenzene	Not detected	50		ug/kg	50	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	50	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	50	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	50	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	50	95-50-1	
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	50	526-73-8	
n-Butylbenzene	Not detected	50		ug/kg	50	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	50	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	50	96-12-8	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	50	120-82-1	
1,2,3-Trichlorobenzene	Not detected	330		ug/kg	50	87-61-6	
Naphthalene	Not detected	300		ug/kg	50	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	50	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID: S23782
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936 / Racer PNC
Submitted: 05/04/2021 09:20 Login User: MMC

Attention: Brad Saunders
Address: Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 810-225-1904 FAX:
Email: brad.saunders@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 6.0
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[ ] Yes	[X] No	[ ] N/A	COC signed and relinquished to the lab	Page 1 was not signed
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

137336

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Brad Saunders, ~~Colleen Barton~~ Lexi Crisp
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: 248 994 2240 FAX NO.: 248 9942241 P.O. NO.: 30075936
E-MAIL ADDRESS: Brad.Saunders@arcadis.com, ~~Colleen.Barton@arcadis.com~~ Lexi.Crisp@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936 / Racer PNC
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner / Seth Turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs / 8260	PAHs / 8270
23782.01	4/26/21	1210	JN-SB-01_SO-042621(5.5-6.5)	S	2	1						1	X	+ 5
.02	4/26/21	1215	JN-SB-01_SO-042621(12.1-13.1)	S	2	1						1		+ 5
.03	4/26/21	1405	JN-SB-02_SO-042621(11-12)	S	2	1						1		+ 5
.04	4/26/21	1410	JN-SB-02_SO-042621(14-15)	S	2	1						1		+ 5
.05	4/27/21	0850	JN-SB-03_SO-042721(5.7-6.7)	S	2	1						1		+ 5
.06	4/27/21	1020	JN-SB-04_SO-042721(10.5-11.5)	S	2	1						1		+ 5
.07	4/27/21	1305	JN-SB-05_SO-042721(12.3-13.3)	S	2	1						1		+ 5
.08	4/29/21	1405	JS-SB-01_SO-042921(7.5-8.5)	S	2	1						1	X	
.09	4/27/21	1430	JS-SB-02_SO-042721(11-12)	S	2	1						1		
.10	4/28/21	0920	JS-SB-03_SO-042821(2-3)	S	2	1						1		
.11	4/28/21	0930	JS-SB-03_SO-042821(11.2-12.2)	S	2	1						1		
.12	4/28/21	1130	JS-SB-04_SO-042821(4.6-5.6)	S	2	1						1		

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Seth Turner / Arcadis ☒ Sampler	DATE: 4/30/21	TIME: 1530	
RECEIVED BY: SIGNATURE/ORGANIZATION: Novi cold storage / Arcadis	DATE: 4/30/21	TIME: 1630	
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:	
RECEIVED BY: SIGNATURE/ORGANIZATION: M Chilcote	DATE: 5/4/21	TIME: 0920	
SEAL NO.: SEAL INTACT YES ☐ NO ☐ INITIALS:	NOTES: TEMP. ON ARRIVAL: 6.0		
SEAL NO.: SEAL INTACT YES ☐ NO ☐ INITIALS:			

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 2

137338

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Brad Saunders, Lexi Crisp
COMPANY: Arcadis
ADDRESS: 28550 Cabot Drive
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: FAX NO.: P.O. NO.: 30075936
E-MAIL ADDRESS: Brad.Saunders@arcadis.com, Lexi.Crisp@arcadis.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: Racer PNC/30075936
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Seth Turner/Sth turner

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs/8260	PAH's/8270	Special Instructions
23782.13	4/28/21	1400	JS-SB-05_SO-042821(5-6)	S	2	1						1	X	X	
.14	4/28/21	1405	JS-SB-05_SO-042821(7-8)	S	2	1						1			
.15	4/28/21	1450	JS-SB-06_SO-042821(12.1-13.1)	S	2	1						1			
.16/.17/.18	4/29/21	0910	JS-SB-07_SO-042921(12.4-13.4)	S	6	3						3			MS/MSD
.19	4/29/21	—	DUP-01_SO-042921	S	2	1						1			
.20	4/29/21	1030	JS-SB-08_SO-043021(4.2-5.2)	S	2	1						1			
.21	4/29/21	—	DUP-02_SO-042921	S	2	1						1			
.22	4/30/21	0905	JS-SB-09_SO-043021(9-10)	S	2	1						1			
.23	4/30/21	0900	JS-SB-09_SO-043021(10-11)	S	2	1						1			
.24	4/30/21	1030	JS-SB-10_SO-043021(14-15)	S	2	1						1			
.25	4/30/21	1140	JS-SB-11_SO-043021(12.4-13.4)	S	2	1						1			
.26			Trip Blank												

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Sth turner/Arcadis ☒ Sampler	DATE 4/30/21	TIME 1530
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi cold Storage/Arcadis	DATE 4/30/21	TIME 1530
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Sth turner/Arcadis	DATE 5/4/21	TIME 0920
RECEIVED BY: SIGNATURE/ORGANIZATION	M Chilcote	DATE 5/4/21	TIME 0920

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Novi cold Storage/Arcadis	DATE 5/4/21	TIME 0730
RECEIVED BY: SIGNATURE/ORGANIZATION	Sth turner/Arcadis	DATE 5/4/21	TIME 0730

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 6.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S30854.01(01)
Generated on 12/09/2021

Report to

Attention: Ian Drost
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Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX:
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Report Summary

Lab Sample ID(s): S30854.01-S30854.17
Project: 30075936.00005
Collected Date(s): 11/30/2021 - 12/02/2021
Submitted Date/Time: 12/02/2021 15:30
Sampled by: Josh Dunn
P.O. #: 30075936.00005

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S30854.01	JS-SB-12_SO-113021 (12-13)	Soil	11/30/21 12:25
S30854.02	JS-SB-12_SO-113021 (23-24)	Soil	11/30/21 14:45
S30854.03	JS-SB-13_SO-113021 (11-12)	Soil	11/30/21 15:00
S30854.04	JS-SB-14_SO-113021 (6-8)	Soil	11/30/21 17:25
S30854.05	JS-SB-14_SO-113021 (10-11)	Soil	11/30/21 17:35
S30854.06	JS-SB-23_SO-120121 (10-11)	Soil	12/01/21 10:40
S30854.07	JS-SB-23_SO-120121 (15-16)	Soil	12/01/21 10:55
S30854.08	JS-SB-24_SO-120121 (10-11)	Soil	12/01/21 13:10
S30854.09	DUP-01_SO-120121	Soil	12/01/21 00:01
S30854.10	JS-SB-25_SO-120121 (9-10)	Soil	12/01/21 15:30
S30854.11	JS-SB-25_SO-120121 (9-10) MS	Soil	12/01/21 15:30
S30854.12	JS-SB-25_SO-120121 (9-10) MSD	Soil	12/01/21 15:30
S30854.13	JS-SB-22_SO-120221 (6-7)	Soil	12/02/21 11:15
S30854.14	JS-SB-22_SO-120221 (14.25-15.25)	Soil	12/02/21 11:20
S30854.15	JS-SB-19_SO-120221 (15-16)	Soil	12/02/21 13:20
S30854.16	JS-SB-19_SO-120221 (17-18)	Soil	12/02/21 13:25
S30854.17	Trip Blank	Methanol	12/02/21 00:01

Lab Sample ID: S30854.01
Sample Tag: JS-SB-12_SO-113021 (12-13)
Collected Date/Time: 11/30/2021 12:25
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.247/19	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 16:31, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.2	60-29-7	
Acetone	Not detected	5,000		ug/kg	64.2	67-64-1	X
Methyl iodide	Not detected	100		ug/kg	64.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.2	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	64.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.2	109-99-9	
Chloroform	Not detected	60		ug/kg	64.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.2	56-23-5	
Benzene	Not detected	60		ug/kg	64.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.2	75-27-4	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S30854.01 (continued)
Sample Tag: JS-SB-12_SO-113021 (12-13)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 16:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromomethane	Not detected	300		ug/kg	64.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-01-5	
Toluene	Not detected	60		ug/kg	64.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.2	630-20-6	
Ethylbenzene	9,760	60		ug/kg	64.2	100-41-4	
p,m-Xylene	32,700	100		ug/kg	64.2		E
o-Xylene	2,600	60		ug/kg	64.2	95-47-6	
Styrene	Not detected	60		ug/kg	64.2	100-42-5	
Isopropylbenzene	800	300		ug/kg	64.2	98-82-8	
Bromoform	Not detected	100		ug/kg	64.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.2	96-18-4	
n-Propylbenzene	4,460	60		ug/kg	64.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.2	108-86-1	
1,3,5-Trimethylbenzene	6,360	60		ug/kg	64.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.2	98-06-6	
1,2,4-Trimethylbenzene	22,340	60		ug/kg	64.2	95-63-6	E
sec-Butylbenzene	380	60		ug/kg	64.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.2	95-50-1	
1,2,3-Trimethylbenzene	6,350	60		ug/kg	64.2	526-73-8	
n-Butylbenzene	2,300	60		ug/kg	64.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	64.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	64.2	87-61-6	
Naphthalene	3,400	300		ug/kg	64.2	91-20-3	
2-Methylnaphthalene	2,600	100		ug/kg	64.2	91-57-6	

Volatile Organics 5035 (Replicate 01), Method: SW5035A/8260C, Run Date: 12/07/21 19:31, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	5,000		ug/kg	1280	60-29-7	Y
Acetone	Not detected	30,000		ug/kg	1280	67-64-1	Y
Methyl iodide	Not detected	3,000		ug/kg	1280	74-88-4	Y
Carbon disulfide	Not detected	6,000		ug/kg	1280	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	5,000		ug/kg	1280	1634-04-4	Y
Acrylonitrile	Not detected	3,000		ug/kg	1280	107-13-1	Y
2-Butanone (MEK)	Not detected	19,000		ug/kg	1280	78-93-3	Y

M-Result reported to MDL not RDL
E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S30854.01 (continued)
Sample Tag: JS-SB-12_SO-113021 (12-13)

Volatile Organics 5035 (Replicate 01), Method: SW5035A/8260C, Run Date: 12/07/21 19:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dichlorodifluoromethane	Not detected	6,000		ug/kg	1280	75-71-8	Y
Chloromethane	Not detected	6,000		ug/kg	1280	74-87-3	Y
Vinyl chloride	Not detected	1,000		ug/kg	1280	75-01-4	Y
Bromomethane	Not detected	5,000		ug/kg	1280	74-83-9	Y
Chloroethane	Not detected	6,000		ug/kg	1280	75-00-3	Y
Trichlorofluoromethane	Not detected	3,000		ug/kg	1280	75-69-4	Y
1,1-Dichloroethene	Not detected	1,000		ug/kg	1280	75-35-4	Y
Methylene chloride	Not detected	3,000		ug/kg	1280	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	1,000		ug/kg	1280	156-60-5	Y
1,1-Dichloroethane	Not detected	1,000		ug/kg	1280	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	1,000		ug/kg	1280	156-59-2	Y
Tetrahydrofuran*	Not detected	30,000		ug/kg	1280	109-99-9	Y
Chloroform	Not detected	1,000		ug/kg	1280	67-66-3	Y
Bromochloromethane	Not detected	3,000		ug/kg	1280	74-97-5	Y
1,1,1-Trichloroethane	Not detected	1,000		ug/kg	1280	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	60,000		ug/kg	1280	108-10-1	Y
2-Hexanone	Not detected	60,000		ug/kg	1280	591-78-6	Y
Carbon tetrachloride	Not detected	1,000		ug/kg	1280	56-23-5	Y
Benzene	Not detected	1,000		ug/kg	1280	71-43-2	Y
1,2-Dichloroethane	Not detected	1,000		ug/kg	1280	107-06-2	Y
Trichloroethene	Not detected	1,000		ug/kg	1280	79-01-6	Y
1,2-Dichloropropane	Not detected	1,000		ug/kg	1280	78-87-5	Y
Bromodichloromethane	Not detected	3,000		ug/kg	1280	75-27-4	Y
Dibromomethane	Not detected	6,000		ug/kg	1280	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	1,000		ug/kg	1280	10061-01-5	Y
Toluene	Not detected	1,000		ug/kg	1280	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	1,000		ug/kg	1280	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	1,000		ug/kg	1280	79-00-5	Y
Tetrachloroethene	Not detected	1,000		ug/kg	1280	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	1,000		ug/kg	1280	110-57-6	Y
Dibromochloromethane	Not detected	3,000		ug/kg	1280	124-48-1	Y
1,2-Dibromoethane	Not detected	500		ug/kg	1280	106-93-4	YM
Chlorobenzene	Not detected	1,000		ug/kg	1280	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	3,000		ug/kg	1280	630-20-6	Y
Ethylbenzene	11,000	1,000		ug/kg	1280	100-41-4	Y
p,m-Xylene	37,000	3,000		ug/kg	1280		Y
o-Xylene	3,000	1,000		ug/kg	1280	95-47-6	Y
Styrene	Not detected	1,000		ug/kg	1280	100-42-5	Y
Isopropylbenzene	Not detected	6,000		ug/kg	1280	98-82-8	Y
Bromoform	Not detected	3,000		ug/kg	1280	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	1,000		ug/kg	1280	79-34-5	Y
1,2,3-Trichloropropane	Not detected	3,000		ug/kg	1280	96-18-4	Y
n-Propylbenzene	5,000	1,000		ug/kg	1280	103-65-1	Y
Bromobenzene	Not detected	3,000		ug/kg	1280	108-86-1	Y
1,3,5-Trimethylbenzene	6,000	1,000		ug/kg	1280	108-67-8	Y
tert-Butylbenzene	Not detected	1,000		ug/kg	1280	98-06-6	Y
1,2,4-Trimethylbenzene	24,000	1,000		ug/kg	1280	95-63-6	Y
sec-Butylbenzene	Not detected	1,000		ug/kg	1280	135-98-8	Y

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Lab Sample ID: S30854.01 (continued)
Sample Tag: JS-SB-12_SO-113021 (12-13)

Volatile Organics 5035 (Replicate 01), Method: SW5035A/8260C, Run Date: 12/07/21 19:31, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
p-Isopropyltoluene	Not detected	3,000		ug/kg	1280	99-87-6	Y
1,3-Dichlorobenzene	Not detected	3,000		ug/kg	1280	541-73-1	Y
1,4-Dichlorobenzene	Not detected	3,000		ug/kg	1280	106-46-7	Y
1,2-Dichlorobenzene	Not detected	3,000		ug/kg	1280	95-50-1	Y
1,2,3-Trimethylbenzene	6,000	1,000		ug/kg	1280	526-73-8	Y
n-Butylbenzene	2,000	1,000		ug/kg	1280	104-51-8	Y
Hexachloroethane	Not detected	8,000		ug/kg	1280	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	6,000		ug/kg	1280	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	8,400		ug/kg	1280	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	8,400		ug/kg	1280	87-61-6	Y
Naphthalene	Not detected	6,000		ug/kg	1280	91-20-3	Y
2-Methylnaphthalene	Not detected	3,000		ug/kg	1280	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S30854.02
Sample Tag: JS-SB-12_SO-113021 (23-24)
Collected Date/Time: 11/30/2021 14:45
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	20.690/20	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/07/21 18:45, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63	60-29-7	
Acetone	Not detected	1,000		ug/kg	63	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63	107-13-1	
2-Butanone (MEK)	Not detected	950		ug/kg	63	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63	75-71-8	
Chloromethane	Not detected	300		ug/kg	63	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63	75-01-4	
Bromomethane	Not detected	300		ug/kg	63	74-83-9	
Chloroethane	Not detected	300		ug/kg	63	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63	109-99-9	
Chloroform	Not detected	60		ug/kg	63	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63	56-23-5	
Benzene	Not detected	60		ug/kg	63	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63	74-95-3	

Lab Sample ID: S30854.02 (continued)
Sample Tag: JS-SB-12_SO-113021 (23-24)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/07/21 18:45, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63	10061-01-5	
Toluene	Not detected	60		ug/kg	63	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63		
o-Xylene	Not detected	60		ug/kg	63	95-47-6	
Styrene	Not detected	60		ug/kg	63	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63	98-82-8	
Bromoform	Not detected	100		ug/kg	63	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63	87-61-6	
Naphthalene	Not detected	300		ug/kg	63	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.03
Sample Tag: JS-SB-13_SO-113021 (11-12)
Collected Date/Time: 11/30/2021 15:00
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	13.649/13	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 17:16, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.5	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.5	109-99-9	
Chloroform	Not detected	60		ug/kg	58.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.5	56-23-5	
Benzene	Not detected	60		ug/kg	58.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.5	74-95-3	

Lab Sample ID: S30854.03 (continued)
Sample Tag: JS-SB-13_SO-113021 (11-12)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 17:16, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-01-5	
Toluene	Not detected	60		ug/kg	58.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.5	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.5		
o-Xylene	Not detected	60		ug/kg	58.5	95-47-6	
Styrene	Not detected	60		ug/kg	58.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.5	98-82-8	
Bromoform	Not detected	100		ug/kg	58.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.5	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.04
Sample Tag: JS-SB-14_SO-113021 (6-8)
Collected Date/Time: 11/30/2021 17:25
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.715/17	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 17:39, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.1	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.1	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.1	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.1	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.1	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	60.1	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.1	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.1	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.1	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.1	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.1	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.1	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.1	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.1	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.1	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.1	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.1	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.1	109-99-9	
Chloroform	Not detected	60		ug/kg	60.1	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.1	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.1	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.1	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.1	56-23-5	
Benzene	120	60		ug/kg	60.1	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.1	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.1	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.1	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.1	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.1	74-95-3	

Lab Sample ID: S30854.04 (continued)
Sample Tag: JS-SB-14_SO-113021 (6-8)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 17:39, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.1	10061-01-5	
Toluene	Not detected	60		ug/kg	60.1	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.1	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.1	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.1	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.1	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.1	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.1	630-20-6	
Ethylbenzene	2,480	60		ug/kg	60.1	100-41-4	
p,m-Xylene	3,800	100		ug/kg	60.1		
o-Xylene	70	60		ug/kg	60.1	95-47-6	
Styrene	Not detected	60		ug/kg	60.1	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.1	98-82-8	
Bromoform	Not detected	100		ug/kg	60.1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.1	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.1	96-18-4	
n-Propylbenzene	770	60		ug/kg	60.1	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.1	108-86-1	
1,3,5-Trimethylbenzene	140	60		ug/kg	60.1	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.1	98-06-6	
1,2,4-Trimethylbenzene	4,330	60		ug/kg	60.1	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.1	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.1	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.1	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.1	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.1	95-50-1	
1,2,3-Trimethylbenzene	1,200	60		ug/kg	60.1	526-73-8	
n-Butylbenzene	190	60		ug/kg	60.1	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.1	87-61-6	
Naphthalene	1,100	300		ug/kg	60.1	91-20-3	
2-Methylnaphthalene	400	100		ug/kg	60.1	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.05
Sample Tag: JS-SB-14_SO-113021 (10-11)
Collected Date/Time: 11/30/2021 17:35
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	15.746/15	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 18:02, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.9	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.9	109-99-9	
Chloroform	Not detected	60		ug/kg	60.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.9	56-23-5	
Benzene	6,810	60		ug/kg	60.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.9	74-95-3	

Lab Sample ID: S30854.05 (continued)
Sample Tag: JS-SB-14_SO-113021 (10-11)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 18:02, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-01-5	
Toluene	110	60		ug/kg	60.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.9	630-20-6	
Ethylbenzene	110	60		ug/kg	60.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.9		
o-Xylene	Not detected	60		ug/kg	60.9	95-47-6	
Styrene	Not detected	60		ug/kg	60.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.9	98-82-8	
Bromoform	Not detected	100		ug/kg	60.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.9	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.06
Sample Tag: JS-SB-23_SO-120121 (10-11)
Collected Date/Time: 12/01/2021 10:40
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.344/19	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 18:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	62.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	62.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	62.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	62.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	62.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	62.6	107-13-1	
2-Butanone (MEK)	Not detected	940		ug/kg	62.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	62.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	62.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	62.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	62.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	62.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	62.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	62.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	62.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	62.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	62.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	62.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	62.6	109-99-9	
Chloroform	Not detected	60		ug/kg	62.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	62.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	62.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	62.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	62.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	62.6	56-23-5	
Benzene	170	60		ug/kg	62.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	62.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	62.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	62.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	62.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	62.6	74-95-3	

Lab Sample ID: S30854.06 (continued)
Sample Tag: JS-SB-23_SO-120121 (10-11)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 18:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	62.6	10061-01-5	
Toluene	920	60		ug/kg	62.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	62.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	62.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	62.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	62.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	62.6	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	62.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	62.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	62.6	630-20-6	
Ethylbenzene	2,520	60		ug/kg	62.6	100-41-4	
p,m-Xylene	4,300	100		ug/kg	62.6		
o-Xylene	930	60		ug/kg	62.6	95-47-6	
Styrene	Not detected	60		ug/kg	62.6	100-42-5	
Isopropylbenzene	400	300		ug/kg	62.6	98-82-8	
Bromoform	Not detected	100		ug/kg	62.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	62.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	62.6	96-18-4	
n-Propylbenzene	2,410	60		ug/kg	62.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	62.6	108-86-1	
1,3,5-Trimethylbenzene	590	60		ug/kg	62.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	62.6	98-06-6	
1,2,4-Trimethylbenzene	1,360	60		ug/kg	62.6	95-63-6	
sec-Butylbenzene	230	60		ug/kg	62.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	62.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	62.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	62.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	62.6	95-50-1	
1,2,3-Trimethylbenzene	2,600	60		ug/kg	62.6	526-73-8	
n-Butylbenzene	1,000	60		ug/kg	62.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	62.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	62.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	62.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	62.6	87-61-6	
Naphthalene	1,500	300		ug/kg	62.6	91-20-3	
2-Methylnaphthalene	2,300	100		ug/kg	62.6	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.07
Sample Tag: JS-SB-23_SO-120121 (15-16)
Collected Date/Time: 12/01/2021 10:55
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.279/17	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 11/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/07/21 19:08, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59	60-29-7	
Acetone	Not detected	1,000		ug/kg	59	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59	107-13-1	
2-Butanone (MEK)	Not detected	890		ug/kg	59	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59	75-71-8	
Chloromethane	Not detected	300		ug/kg	59	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59	75-01-4	
Bromomethane	Not detected	200		ug/kg	59	74-83-9	
Chloroethane	Not detected	300		ug/kg	59	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59	109-99-9	
Chloroform	Not detected	60		ug/kg	59	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59	56-23-5	
Benzene	Not detected	60		ug/kg	59	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59	74-95-3	

Lab Sample ID: S30854.07 (continued)
Sample Tag: JS-SB-23_SO-120121 (15-16)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/07/21 19:08, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59	10061-01-5	
Toluene	Not detected	60		ug/kg	59	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	59	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	59		
o-Xylene	Not detected	60		ug/kg	59	95-47-6	
Styrene	Not detected	60		ug/kg	59	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59	98-82-8	
Bromoform	Not detected	100		ug/kg	59	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	59	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	59	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	59	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	59	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59	87-61-6	
Naphthalene	Not detected	300		ug/kg	59	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	59	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.08
Sample Tag: JS-SB-24_SO-120121 (10-11)
Collected Date/Time: 12/01/2021 13:10
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.615/17	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 19:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	62.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	62.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	62.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	62.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	62.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	62.9	107-13-1	
2-Butanone (MEK)	Not detected	940		ug/kg	62.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	62.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	62.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	62.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	62.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	62.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	62.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	62.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	62.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	62.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	62.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	62.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	62.9	109-99-9	
Chloroform	Not detected	60		ug/kg	62.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	62.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	62.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	62.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	62.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	62.9	56-23-5	
Benzene	Not detected	60		ug/kg	62.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	62.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	62.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	62.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	62.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	62.9	74-95-3	

Lab Sample ID: S30854.08 (continued)
Sample Tag: JS-SB-24_SO-120121 (10-11)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 19:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	62.9	10061-01-5	
Toluene	Not detected	60		ug/kg	62.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	62.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	62.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	62.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	62.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	62.9	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	62.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	62.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	62.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	62.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	62.9		
o-Xylene	Not detected	60		ug/kg	62.9	95-47-6	
Styrene	Not detected	60		ug/kg	62.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	62.9	98-82-8	
Bromoform	Not detected	100		ug/kg	62.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	62.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	62.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	62.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	62.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	62.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	62.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	62.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	62.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	62.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	62.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	62.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	62.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	62.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	62.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	62.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	62.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	62.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	62.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	62.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	62.9	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.09
Sample Tag: DUP-01_SO-120121
Collected Date/Time: 12/01/2021 00:01
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	16.735/16	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	83	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 19:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.8	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.8	109-99-9	
Chloroform	Not detected	70		ug/kg	67.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.8	56-23-5	
Benzene	Not detected	70		ug/kg	67.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.8	74-95-3	

Lab Sample ID: S30854.09 (continued)
Sample Tag: DUP-01_SO-120121

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 19:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.8	10061-01-5	
Toluene	Not detected	70		ug/kg	67.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	67.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.8		
o-Xylene	Not detected	70		ug/kg	67.8	95-47-6	
Styrene	Not detected	70		ug/kg	67.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.8	98-82-8	
Bromoform	Not detected	100		ug/kg	67.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	67.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	67.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.8	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.10
Sample Tag: JS-SB-25_SO-120121 (9-10)
Collected Date/Time: 12/01/2021 15:30
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	16.206/16	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 19:56, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.6	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.6	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.6	109-99-9	
Chloroform	Not detected	60		ug/kg	61.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.6	56-23-5	
Benzene	Not detected	60		ug/kg	61.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.6	74-95-3	

Lab Sample ID: S30854.10 (continued)
Sample Tag: JS-SB-25_SO-120121 (9-10)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 19:56, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.6	10061-01-5	
Toluene	Not detected	60		ug/kg	61.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.6	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.6		
o-Xylene	Not detected	60		ug/kg	61.6	95-47-6	
Styrene	Not detected	60		ug/kg	61.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.6	98-82-8	
Bromoform	Not detected	100		ug/kg	61.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	61.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	61.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	61.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	61.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	61.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	61.6	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.11
Sample Tag: JS-SB-25_SO-120121 (9-10) MS
Collected Date/Time: 12/01/2021 15:30
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.438/17	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 12:57, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	2,500	200		ug/kg	59.7	60-29-7	1
Acetone	3,000	1,000		ug/kg	59.7	67-64-1	1
Methyl iodide	2,500	100		ug/kg	59.7	74-88-4	1
Carbon disulfide	2,400	300		ug/kg	59.7	75-15-0	1
tert-Methyl butyl ether (MTBE)	2,700	200		ug/kg	59.7	1634-04-4	1
Acrylonitrile	2,500	100		ug/kg	59.7	107-13-1	1
2-Butanone (MEK)	2,250	900		ug/kg	59.7	78-93-3	1
Dichlorodifluoromethane	2,600	300		ug/kg	59.7	75-71-8	1
Chloromethane	2,600	300		ug/kg	59.7	74-87-3	1
Vinyl chloride	2,550	60		ug/kg	59.7	75-01-4	1
Bromomethane	2,100	200		ug/kg	59.7	74-83-9	1
Chloroethane	2,200	300		ug/kg	59.7	75-00-3	1
Trichlorofluoromethane	2,200	100		ug/kg	59.7	75-69-4	1
1,1-Dichloroethene	2,350	60		ug/kg	59.7	75-35-4	1
Methylene chloride	2,600	100		ug/kg	59.7	75-09-2	1
trans-1,2-Dichloroethene	2,460	60		ug/kg	59.7	156-60-5	1
1,1-Dichloroethane	2,460	60		ug/kg	59.7	75-34-3	1
cis-1,2-Dichloroethene	2,440	60		ug/kg	59.7	156-59-2	1
Tetrahydrofuran*	2,000	1,000		ug/kg	59.7	109-99-9	1
Chloroform	2,440	60		ug/kg	59.7	67-66-3	1
Bromochloromethane	2,500	100		ug/kg	59.7	74-97-5	1
1,1,1-Trichloroethane	2,420	60		ug/kg	59.7	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.7	108-10-1	1
2-Hexanone	Not detected	3,000		ug/kg	59.7	591-78-6	1
Carbon tetrachloride	2,430	60		ug/kg	59.7	56-23-5	1
Benzene	2,550	60		ug/kg	59.7	71-43-2	1
1,2-Dichloroethane	2,610	60		ug/kg	59.7	107-06-2	1
Trichloroethene	2,490	60		ug/kg	59.7	79-01-6	1
1,2-Dichloropropane	2,720	60		ug/kg	59.7	78-87-5	1
Bromodichloromethane	2,600	100		ug/kg	59.7	75-27-4	1

1-Spiked at 2.98mg/kg

Lab Sample ID: S30854.11 (continued)
Sample Tag: JS-SB-25_SO-120121 (9-10) MS

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 12:57, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromomethane	2,600	300		ug/kg	59.7	74-95-3	1
cis-1,3-Dichloropropene	2,770	60		ug/kg	59.7	10061-01-5	1
Toluene	2,540	60		ug/kg	59.7	108-88-3	1
trans-1,3-Dichloropropene	2,860	60		ug/kg	59.7	10061-02-6	1
1,1,2-Trichloroethane	2,680	60		ug/kg	59.7	79-00-5	1
Tetrachloroethene	2,470	60		ug/kg	59.7	127-18-4	1
trans-1,4-Dichloro-2-butene	2,600	60		ug/kg	59.7	110-57-6	1
Dibromochloromethane	2,600	100		ug/kg	59.7	124-48-1	1
1,2-Dibromoethane	2,640	20		ug/kg	59.7	106-93-4	M1
Chlorobenzene	2,510	60		ug/kg	59.7	108-90-7	1
1,1,1,2-Tetrachloroethane	2,600	100		ug/kg	59.7	630-20-6	1
Ethylbenzene	2,490	60		ug/kg	59.7	100-41-4	1
p,m-Xylene	5,000	100		ug/kg	59.7		1
o-Xylene	2,510	60		ug/kg	59.7	95-47-6	1
Styrene	2,570	60		ug/kg	59.7	100-42-5	1
Isopropylbenzene	2,400	300		ug/kg	59.7	98-82-8	1
Bromoform	2,500	100		ug/kg	59.7	75-25-2	1
1,1,2,2-Tetrachloroethane	2,560	60		ug/kg	59.7	79-34-5	1
1,2,3-Trichloropropane	2,600	100		ug/kg	59.7	96-18-4	1
n-Propylbenzene	2,420	60		ug/kg	59.7	103-65-1	1
Bromobenzene	2,500	100		ug/kg	59.7	108-86-1	1
1,3,5-Trimethylbenzene	2,460	60		ug/kg	59.7	108-67-8	1
tert-Butylbenzene	2,470	60		ug/kg	59.7	98-06-6	1
1,2,4-Trimethylbenzene	2,480	60		ug/kg	59.7	95-63-6	1
sec-Butylbenzene	2,490	60		ug/kg	59.7	135-98-8	1
p-Isopropyltoluene	2,500	100		ug/kg	59.7	99-87-6	1
1,3-Dichlorobenzene	2,600	100		ug/kg	59.7	541-73-1	1
1,4-Dichlorobenzene	2,500	100		ug/kg	59.7	106-46-7	1
1,2-Dichlorobenzene	2,500	100		ug/kg	59.7	95-50-1	1
1,2,3-Trimethylbenzene	2,610	60		ug/kg	59.7	526-73-8	1
n-Butylbenzene	2,470	60		ug/kg	59.7	104-51-8	1
Hexachloroethane	2,500	400		ug/kg	59.7	67-72-1	1
1,2-Dibromo-3-chloropropane	2,600	300		ug/kg	59.7	96-12-8	1
1,2,4-Trichlorobenzene	2,660	390		ug/kg	59.7	120-82-1	1
1,2,3-Trichlorobenzene	2,610	390		ug/kg	59.7	87-61-6	1
Naphthalene	2,700	300		ug/kg	59.7	91-20-3	1
2-Methylnaphthalene	3,000	100		ug/kg	59.7	91-57-6	1

1-Spiked at 2.98mg/kg
M-Result reported to MDL not RDL

Lab Sample ID: S30854.12
Sample Tag: JS-SB-25_SO-120121 (9-10) MSD
Collected Date/Time: 12/01/2021 15:30
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	15.607/15	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 13:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	2,800	200		ug/kg	61.4	60-29-7	1
Acetone	3,000	1,000		ug/kg	61.4	67-64-1	1
Methyl iodide	2,600	100		ug/kg	61.4	74-88-4	1
Carbon disulfide	2,500	300		ug/kg	61.4	75-15-0	1
tert-Methyl butyl ether (MTBE)	2,900	200		ug/kg	61.4	1634-04-4	1
Acrylonitrile	2,600	100		ug/kg	61.4	107-13-1	1
2-Butanone (MEK)	2,420	920		ug/kg	61.4	78-93-3	1
Dichlorodifluoromethane	2,700	300		ug/kg	61.4	75-71-8	1
Chloromethane	2,700	300		ug/kg	61.4	74-87-3	1
Vinyl chloride	2,570	60		ug/kg	61.4	75-01-4	1
Bromomethane	2,100	200		ug/kg	61.4	74-83-9	1
Chloroethane	2,300	300		ug/kg	61.4	75-00-3	1
Trichlorofluoromethane	2,300	100		ug/kg	61.4	75-69-4	1
1,1-Dichloroethene	2,480	60		ug/kg	61.4	75-35-4	1
Methylene chloride	2,800	100		ug/kg	61.4	75-09-2	1
trans-1,2-Dichloroethene	2,570	60		ug/kg	61.4	156-60-5	1
1,1-Dichloroethane	2,640	60		ug/kg	61.4	75-34-3	1
cis-1,2-Dichloroethene	2,610	60		ug/kg	61.4	156-59-2	1
Tetrahydrofuran*	2,000	1,000		ug/kg	61.4	109-99-9	1
Chloroform	2,640	60		ug/kg	61.4	67-66-3	1
Bromochloromethane	2,700	100		ug/kg	61.4	74-97-5	1
1,1,1-Trichloroethane	2,550	60		ug/kg	61.4	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.4	108-10-1	1
2-Hexanone	Not detected	3,000		ug/kg	61.4	591-78-6	1
Carbon tetrachloride	2,500	60		ug/kg	61.4	56-23-5	1
Benzene	2,660	60		ug/kg	61.4	71-43-2	1
1,2-Dichloroethane	2,760	60		ug/kg	61.4	107-06-2	1
Trichloroethene	2,570	60		ug/kg	61.4	79-01-6	1
1,2-Dichloropropane	2,890	60		ug/kg	61.4	78-87-5	1
Bromodichloromethane	2,800	100		ug/kg	61.4	75-27-4	1

1-Spiked at 3.07mg/kg

Lab Sample ID: S30854.12 (continued)
Sample Tag: JS-SB-25_SO-120121 (9-10) MSD

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 13:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromomethane	2,700	300		ug/kg	61.4	74-95-3	1
cis-1,3-Dichloropropene	2,940	60		ug/kg	61.4	10061-01-5	1
Toluene	2,630	60		ug/kg	61.4	108-88-3	1
trans-1,3-Dichloropropene	3,040	60		ug/kg	61.4	10061-02-6	1
1,1,2-Trichloroethane	2,850	60		ug/kg	61.4	79-00-5	1
Tetrachloroethene	2,520	60		ug/kg	61.4	127-18-4	1
trans-1,4-Dichloro-2-butene	2,760	60		ug/kg	61.4	110-57-6	1
Dibromochloromethane	2,700	100		ug/kg	61.4	124-48-1	1
1,2-Dibromoethane	2,810	20		ug/kg	61.4	106-93-4	M1
Chlorobenzene	2,630	60		ug/kg	61.4	108-90-7	1
1,1,1,2-Tetrachloroethane	2,700	100		ug/kg	61.4	630-20-6	1
Ethylbenzene	2,560	60		ug/kg	61.4	100-41-4	1
p,m-Xylene	5,200	100		ug/kg	61.4		1
o-Xylene	2,610	60		ug/kg	61.4	95-47-6	1
Styrene	2,690	60		ug/kg	61.4	100-42-5	1
Isopropylbenzene	2,500	300		ug/kg	61.4	98-82-8	1
Bromoform	2,700	100		ug/kg	61.4	75-25-2	1
1,1,2,2-Tetrachloroethane	2,710	60		ug/kg	61.4	79-34-5	1
1,2,3-Trichloropropane	2,700	100		ug/kg	61.4	96-18-4	1
n-Propylbenzene	2,520	60		ug/kg	61.4	103-65-1	1
Bromobenzene	2,600	100		ug/kg	61.4	108-86-1	1
1,3,5-Trimethylbenzene	2,550	60		ug/kg	61.4	108-67-8	1
tert-Butylbenzene	2,560	60		ug/kg	61.4	98-06-6	1
1,2,4-Trimethylbenzene	2,570	60		ug/kg	61.4	95-63-6	1
sec-Butylbenzene	2,520	60		ug/kg	61.4	135-98-8	1
p-Isopropyltoluene	2,500	100		ug/kg	61.4	99-87-6	1
1,3-Dichlorobenzene	2,600	100		ug/kg	61.4	541-73-1	1
1,4-Dichlorobenzene	2,600	100		ug/kg	61.4	106-46-7	1
1,2-Dichlorobenzene	2,700	100		ug/kg	61.4	95-50-1	1
1,2,3-Trimethylbenzene	2,730	60		ug/kg	61.4	526-73-8	1
n-Butylbenzene	2,510	60		ug/kg	61.4	104-51-8	1
Hexachloroethane	2,600	400		ug/kg	61.4	67-72-1	1
1,2-Dibromo-3-chloropropane	2,700	300		ug/kg	61.4	96-12-8	1
1,2,4-Trichlorobenzene	2,690	410		ug/kg	61.4	120-82-1	1
1,2,3-Trichlorobenzene	2,640	410		ug/kg	61.4	87-61-6	1
Naphthalene	2,700	300		ug/kg	61.4	91-20-3	1
2-Methylnaphthalene	2,900	100		ug/kg	61.4	91-57-6	1

1-Spiked at 3.07mg/kg
M-Result reported to MDL not RDL

Lab Sample ID: S30854.13
Sample Tag: JS-SB-22_SO-120221 (6-7)
Collected Date/Time: 12/02/2021 11:15
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.590/19	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 20:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.2	107-13-1	
2-Butanone (MEK)	Not detected	870		ug/kg	58.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.2	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.2	109-99-9	
Chloroform	Not detected	60		ug/kg	58.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.2	56-23-5	
Benzene	Not detected	60		ug/kg	58.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.2	74-95-3	

Lab Sample ID: S30854.13 (continued)
Sample Tag: JS-SB-22_SO-120221 (6-7)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 20:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.2	10061-01-5	
Toluene	Not detected	60		ug/kg	58.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.2	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.2		
o-Xylene	Not detected	60		ug/kg	58.2	95-47-6	
Styrene	Not detected	60		ug/kg	58.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.2	98-82-8	
Bromoform	Not detected	100		ug/kg	58.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.2	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.2	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	58.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	380		ug/kg	58.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	380		ug/kg	58.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.2	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.14
Sample Tag: JS-SB-22_SO-120221 (14.25-15.25)
Collected Date/Time: 12/02/2021 11:20
Matrix: Soil
COC Reference: 137908

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	15.295/15	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 20:42, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	56.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	56.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	56.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	56.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	56.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	56.5	107-13-1	
2-Butanone (MEK)	Not detected	850		ug/kg	56.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	56.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	56.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	56.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	56.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	56.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	56.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	56.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	56.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	56.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	56.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	56.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	56.5	109-99-9	
Chloroform	Not detected	60		ug/kg	56.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	56.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	56.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	56.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	56.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	56.5	56-23-5	
Benzene	Not detected	60		ug/kg	56.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	56.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	56.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	56.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	56.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	56.5	74-95-3	

Lab Sample ID: S30854.14 (continued)

Sample Tag: JS-SB-22_SO-120221 (14.25-15.25)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 20:42, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	56.5	10061-01-5	
Toluene	Not detected	60		ug/kg	56.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	56.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	56.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	56.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	56.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	56.5	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	56.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	56.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	56.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	56.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	56.5		
o-Xylene	Not detected	60		ug/kg	56.5	95-47-6	
Styrene	Not detected	60		ug/kg	56.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	56.5	98-82-8	
Bromoform	Not detected	100		ug/kg	56.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	56.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	56.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	56.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	56.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	56.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	56.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	56.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	56.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	56.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	56.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	56.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	56.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	56.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	56.5	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	56.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	56.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	370		ug/kg	56.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	370		ug/kg	56.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	56.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	56.5	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.15
Sample Tag: JS-SB-19_SO-120221 (15-16)
Collected Date/Time: 12/02/2021 13:20
Matrix: Soil
COC Reference: 137909

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	18.654/18	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 21:05, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.2	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	64.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.2	109-99-9	
Chloroform	Not detected	60		ug/kg	64.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.2	56-23-5	
Benzene	Not detected	60		ug/kg	64.2	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.2	74-95-3	

Lab Sample ID: S30854.15 (continued)
Sample Tag: JS-SB-19_SO-120221 (15-16)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 21:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-01-5	
Toluene	Not detected	60		ug/kg	64.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.2		
o-Xylene	Not detected	60		ug/kg	64.2	95-47-6	
Styrene	Not detected	60		ug/kg	64.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.2	98-82-8	
Bromoform	Not detected	100		ug/kg	64.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.2	96-18-4	
n-Propylbenzene	520	60		ug/kg	64.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.2	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	64.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	64.2	87-61-6	
Naphthalene	400	300		ug/kg	64.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.2	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30854.16
Sample Tag: JS-SB-19_SO-120221 (17-18)
Collected Date/Time: 12/02/2021 13:25
Matrix: Soil
COC Reference: 137909

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.9	IR
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.493/19	SW5035A	12/03/21 09:23	NDK	

Inorganics

Method: SM2540B, Run Date: 12/07/21 16:10, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 21:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.5	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.5	109-99-9	
Chloroform	Not detected	60		ug/kg	58.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.5	56-23-5	
Benzene	Not detected	60		ug/kg	58.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.5	74-95-3	

Lab Sample ID: S30854.16 (continued)
Sample Tag: JS-SB-19_SO-120221 (17-18)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 21:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-01-5	
Toluene	Not detected	60		ug/kg	58.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.5	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.5		
o-Xylene	Not detected	60		ug/kg	58.5	95-47-6	
Styrene	Not detected	60		ug/kg	58.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.5	98-82-8	
Bromoform	Not detected	100		ug/kg	58.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.5	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S30854.17
Sample Tag: Trip Blank
Collected Date/Time: 12/02/2021 00:01
Matrix: Methanol
COC Reference: 137909

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.000/10	SW5035A	12/03/21 09:23	NDK	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 14:50, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	50	60-29-7	
Acetone	Not detected	1,000		ug/kg	50	67-64-1	
Methyl iodide	Not detected	100		ug/kg	50	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	50	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	50	107-13-1	
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	50	75-71-8	
Chloromethane	Not detected	300		ug/kg	50	74-87-3	
Vinyl chloride	Not detected	50		ug/kg	50	75-01-4	
Bromomethane	Not detected	200		ug/kg	50	74-83-9	
Chloroethane	Not detected	300		ug/kg	50	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4	
Methylene chloride	Not detected	100		ug/kg	50	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	50	109-99-9	
Chloroform	Not detected	50		ug/kg	50	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	50	74-97-5	
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5	
Benzene	Not detected	50		ug/kg	50	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2	
Trichloroethene	Not detected	50		ug/kg	50	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	50	75-27-4	
Dibromomethane	Not detected	300		ug/kg	50	74-95-3	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5	
Toluene	Not detected	50		ug/kg	50	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	50	110-57-6	

Lab Sample ID: S30854.17 (continued)
Sample Tag: Trip Blank

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/06/21 14:50, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	100		ug/kg	50	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	50	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	50	630-20-6	
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	50		
o-Xylene	Not detected	50		ug/kg	50	95-47-6	
Styrene	Not detected	50		ug/kg	50	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	50	98-82-8	
Bromoform	Not detected	100		ug/kg	50	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	50	96-18-4	
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1	
Bromobenzene	Not detected	100		ug/kg	50	108-86-1	
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	50	108-67-8	
tert-Butylbenzene	Not detected	50		ug/kg	50	98-06-6	
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	50	95-63-6	
sec-Butylbenzene	Not detected	50		ug/kg	50	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	50	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	50	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	50	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	50	95-50-1	
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	50	526-73-8	
n-Butylbenzene	Not detected	50		ug/kg	50	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	50	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	50	96-12-8	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	50	120-82-1	
1,2,3-Trichlorobenzene	Not detected	330		ug/kg	50	87-61-6	
Naphthalene	Not detected	300		ug/kg	50	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	50	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID: S30854
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936.00005
Submitted: 12/02/2021 15:30 Login User: PFD

Attention: Ian Drost
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX:
Email: Ian.Drost@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.9
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[ ] Yes	[X] No	[ ] N/A	COC adequately filled out	MS/MSD not noted and Trip blank not listed on COC
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

137908

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Ian Drost
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi, STATE: MI, ZIP CODE: 48377
PHONE NO.: (614) 985-9163, (248) 994-2284 FAX NO.:
P.O. NO.:
E-MAIL ADDRESS: alexis.crisp@arcadis.com, ian.drost@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936.00005
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Dunn

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs (8260)	Dry Weight	Special Instructions
30854.01	11/30/21	12:25	JS-SB-12_SO-113021 (12-13)	S	2	1						1	X	X	CH40 Preservative
.02	11/30/21	14:45	JS-SB-12-SO-113021 (23-24)	S	2	1						1	X	X	CH40 Preservative
.03	11/30/21	15:00	JS-SB-13_SO_113021 (11-12)	S	2	1						1	X	X	CH40 Preservative
.04	11/30/21	17:29	JS-SB-14_SO-113021 (6-8')	S	2	1						1	X	X	CH40 Preservative
.05	11/30/21	17:35	JS-SB-14_SO-113021 (10-11)	S	2	1						1	X	X	CH40 Preservative
.06	12/1/21	10:40	JS-SB-23_SO-120121 (10-11)	S	2	1						1	X	X	CH40 Preservative
.07	12/1/21	10:55	JS-SB-23_SO-120121 (15-16)	S	2	1						1	X	X	CH40 Preservative
.08	12/1/21	13:10	JS-SB-24_SO-120121 ~~(9-10)~~ (10-11) (JD)	S	2	1						1	X	X	CH40 Preservative
.09	12/1/21	-	DUP-01_SO-120121	S	2	1						1	X	X	CH40 Preservative
.10,.11,.12	12/1/21	15:30	JS-SB-25_SO-120121 (9-10)	S	6	3						3	X	X	CH40 Preservative
.13	12/2/21	11:15	JS-SB-22_SO-120221 (6-7	S	2	1						1	X	X	CH40 Preservative
.14	12/2/21	11:20	JS-SB-22_SO-120221 (14.25-15.25)	S	2	1						1	X	X	CH40 Preservative

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Josh Dunn / Arcadis ☒ Sampler	DATE 12/2/21	TIME 13:45
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/2/21	TIME 13:46
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/2/21	TIME 15:30
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/2/21	TIME 15:30

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 2

137909

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Ian Drost
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: (614) 985-9163, (248) 994-2284 FAX NO.:
E-MAIL ADDRESS: alexis.crisp@arcadis.com, ian.drost@arcadis.com
P.O. NO.:
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936.00005
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Dunn

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs (8260)	Dry Weight	Special Instructions
30884.15	12/2/21	13:20	JS-SB-19-SO-120221(15-16)	S	2	1						1	x	x	CH4O Preservative
.16	12/2/21	13:25	JS-SB-19-SO-120221(17-18)	S	2	1						1	x	x	CH4O Preservative

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Josh Dunn/Arcadis ☒ Sampler	DATE 12/2/21	TIME 13:45
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/2/21	TIME 13:45
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/2/21	TIME 15:30
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/2/21	TIME 1530

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S30926.01(01)
Generated on 12/13/2021

Report to

Attention: Ian Drost
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX:
Email: Ian.Drost@arcadis.com

Addtional Contacts: Alexis Crisp

Report produced by

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S30926.01-S30926.10
Project: 30075936.00005
Collected Date(s): 12/02/2021 - 12/03/2021
Submitted Date/Time: 12/03/2021 16:10
Sampled by: Joshua Dunn
P.O. #: 30075936.00005

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S30926.01	JS-SB-21_SO-120221 (13-14)	Soil	12/02/21 15:15
S30926.02	JS-SB-15_SO-120221 (12-13)	Soil	12/02/21 16:35
S30926.03	JS-SB-15_SO-120221 (16-17)	Soil	12/02/21 16:40
S30926.04	JS-SB-26_SO-120321 (16-17)	Soil	12/03/21 10:30
S30926.05	DUP-02_SO-120321	Soil	12/03/21 00:01
S30926.06	JS-SB-20_SO-120321 (13.7-14.7)	Soil	12/03/21 11:50
S30926.07	JS-SB-20_SO-120321 (16-17)	Soil	12/03/21 12:10
S30926.08	JS-SB-28_SO-120321 (5.25-6.25)	Soil	12/03/21 14:20
S30926.09	JS-SB-28_SO-120321 (17.5-18.5)	Soil	12/03/21 14:30
S30926.10	Trip Blank-02	Methanol	12/03/21 00:01

Lab Sample ID: S30926.01
Sample Tag: JS-SB-21_SO-120221 (13-14)
Collected Date/Time: 12/02/2021 15:15
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.474/17	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	84	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 05:03, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.4	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.4	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.4	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.4	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.4	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.4	109-99-9	
Chloroform	Not detected	70		ug/kg	67.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.4	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.4	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.4	56-23-5	
Benzene	Not detected	70		ug/kg	67.4	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.4	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.4	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.4	74-95-3	

Lab Sample ID: S30926.01 (continued)
Sample Tag: JS-SB-21_SO-120221 (13-14)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 05:03, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.4	10061-01-5	
Toluene	Not detected	70		ug/kg	67.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.4	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.4	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	67.4	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.4	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.4		
o-Xylene	Not detected	70		ug/kg	67.4	95-47-6	
Styrene	Not detected	70		ug/kg	67.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.4	98-82-8	
Bromoform	Not detected	100		ug/kg	67.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.4	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.4	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.4	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.4	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	440		ug/kg	67.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	440		ug/kg	67.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.4	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.02
Sample Tag: JS-SB-15_SO-120221 (12-13)
Collected Date/Time: 12/02/2021 16:35
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.800/19	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 05:25, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	71	60-29-7	
Acetone	Not detected	1,000		ug/kg	71	67-64-1	
Methyl iodide	Not detected	100		ug/kg	71	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	71	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	71	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	71	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	71	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	71	75-71-8	
Chloromethane	Not detected	400		ug/kg	71	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	71	75-01-4	
Bromomethane	Not detected	300		ug/kg	71	74-83-9	
Chloroethane	Not detected	400		ug/kg	71	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	71	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	71	75-35-4	
Methylene chloride	Not detected	100		ug/kg	71	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	71	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	71	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	71	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	71	109-99-9	
Chloroform	Not detected	70		ug/kg	71	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	71	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	71	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	71	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	71	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	71	56-23-5	
Benzene	Not detected	70		ug/kg	71	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	71	107-06-2	
Trichloroethene	Not detected	70		ug/kg	71	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	71	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	71	75-27-4	
Dibromomethane	Not detected	400		ug/kg	71	74-95-3	

Lab Sample ID: S30926.02 (continued)
Sample Tag: JS-SB-15_SO-120221 (12-13)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 05:25, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	71	10061-01-5	
Toluene	Not detected	70		ug/kg	71	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	71	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	71	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	71	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	71	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	71	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	71	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	71	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	71	630-20-6	
Ethylbenzene	7,490	70		ug/kg	71	100-41-4	
p,m-Xylene	11,500	100		ug/kg	71		
o-Xylene	120	70		ug/kg	71	95-47-6	
Styrene	Not detected	70		ug/kg	71	100-42-5	
Isopropylbenzene	1,800	400		ug/kg	71	98-82-8	
Bromoform	Not detected	100		ug/kg	71	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	71	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	71	96-18-4	
n-Propylbenzene	10,020	70		ug/kg	71	103-65-1	
Bromobenzene	Not detected	100		ug/kg	71	108-86-1	
1,3,5-Trimethylbenzene	2,950	70		ug/kg	71	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	71	98-06-6	
1,2,4-Trimethylbenzene	35,590	70		ug/kg	71	95-63-6	E
sec-Butylbenzene	1,250	70		ug/kg	71	135-98-8	
p-Isopropyltoluene	400	100		ug/kg	71	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	71	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	71	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	71	95-50-1	
1,2,3-Trimethylbenzene	11,050	70		ug/kg	71	526-73-8	
n-Butylbenzene	4,780	70		ug/kg	71	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	71	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	71	96-12-8	
1,2,4-Trichlorobenzene	Not detected	470		ug/kg	71	120-82-1	
1,2,3-Trichlorobenzene	Not detected	470		ug/kg	71	87-61-6	
Naphthalene	4,700	400		ug/kg	71	91-20-3	
2-Methylnaphthalene	6,400	100		ug/kg	71	91-57-6	

Volatile Organics 5035 (Replicate 01), Method: SW5035A/8260C, Run Date: 12/09/21 18:46, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	6,000		ug/kg	1420	60-29-7	Y
Acetone	Not detected	30,000		ug/kg	1420	67-64-1	Y
Methyl iodide	Not detected	3,000		ug/kg	1420	74-88-4	Y
Carbon disulfide	Not detected	7,000		ug/kg	1420	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	6,000		ug/kg	1420	1634-04-4	Y
Acrylonitrile	Not detected	3,000		ug/kg	1420	107-13-1	Y
2-Butanone (MEK)	Not detected	21,000		ug/kg	1420	78-93-3	Y
Dichlorodifluoromethane	Not detected	7,000		ug/kg	1420	75-71-8	Y

M-Result reported to MDL not RDL
E-Concentration exceeds calibration range
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S30926.02 (continued)
Sample Tag: JS-SB-15_SO-120221 (12-13)

Volatile Organics 5035 (Replicate 01), Method: SW5035A/8260C, Run Date: 12/09/21 18:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chloromethane	Not detected	7,000		ug/kg	1420	74-87-3	Y
Vinyl chloride	Not detected	1,000		ug/kg	1420	75-01-4	Y
Bromomethane	Not detected	6,000		ug/kg	1420	74-83-9	Y
Chloroethane	Not detected	7,000		ug/kg	1420	75-00-3	Y
Trichlorofluoromethane	Not detected	3,000		ug/kg	1420	75-69-4	Y
1,1-Dichloroethene	Not detected	1,000		ug/kg	1420	75-35-4	Y
Methylene chloride	Not detected	3,000		ug/kg	1420	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	1,000		ug/kg	1420	156-60-5	Y
1,1-Dichloroethane	Not detected	1,000		ug/kg	1420	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	1,000		ug/kg	1420	156-59-2	Y
Tetrahydrofuran*	Not detected	30,000		ug/kg	1420	109-99-9	Y
Chloroform	Not detected	1,000		ug/kg	1420	67-66-3	Y
Bromochloromethane	Not detected	3,000		ug/kg	1420	74-97-5	Y
1,1,1-Trichloroethane	Not detected	1,000		ug/kg	1420	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	70,000		ug/kg	1420	108-10-1	Y
2-Hexanone	Not detected	70,000		ug/kg	1420	591-78-6	Y
Carbon tetrachloride	Not detected	1,000		ug/kg	1420	56-23-5	Y
Benzene	Not detected	1,000		ug/kg	1420	71-43-2	Y
1,2-Dichloroethane	Not detected	1,000		ug/kg	1420	107-06-2	Y
Trichloroethene	Not detected	1,000		ug/kg	1420	79-01-6	Y
1,2-Dichloropropane	Not detected	1,000		ug/kg	1420	78-87-5	Y
Bromodichloromethane	Not detected	3,000		ug/kg	1420	75-27-4	Y
Dibromomethane	Not detected	7,000		ug/kg	1420	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	1,000		ug/kg	1420	10061-01-5	Y
Toluene	Not detected	1,000		ug/kg	1420	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	1,000		ug/kg	1420	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	1,000		ug/kg	1420	79-00-5	Y
Tetrachloroethene	Not detected	1,000		ug/kg	1420	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	1,000		ug/kg	1420	110-57-6	Y
Dibromochloromethane	Not detected	3,000		ug/kg	1420	124-48-1	Y
1,2-Dibromoethane	Not detected	600		ug/kg	1420	106-93-4	YM
Chlorobenzene	Not detected	1,000		ug/kg	1420	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	3,000		ug/kg	1420	630-20-6	Y
Ethylbenzene	9,000	1,000		ug/kg	1420	100-41-4	Y
p,m-Xylene	14,000	3,000		ug/kg	1420		Y
o-Xylene	Not detected	1,000		ug/kg	1420	95-47-6	Y
Styrene	Not detected	1,000		ug/kg	1420	100-42-5	Y
Isopropylbenzene	Not detected	7,000		ug/kg	1420	98-82-8	Y
Bromoform	Not detected	3,000		ug/kg	1420	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	1,000		ug/kg	1420	79-34-5	Y
1,2,3-Trichloropropane	Not detected	3,000		ug/kg	1420	96-18-4	Y
n-Propylbenzene	12,000	1,000		ug/kg	1420	103-65-1	Y
Bromobenzene	Not detected	3,000		ug/kg	1420	108-86-1	Y
1,3,5-Trimethylbenzene	4,000	1,000		ug/kg	1420	108-67-8	Y
tert-Butylbenzene	Not detected	1,000		ug/kg	1420	98-06-6	Y
1,2,4-Trimethylbenzene	54,000	1,000		ug/kg	1420	95-63-6	Y
sec-Butylbenzene	Not detected	1,000		ug/kg	1420	135-98-8	Y
p-Isopropyltoluene	Not detected	3,000		ug/kg	1420	99-87-6	Y

Y-Elevated reporting limit due to high target concentration
M-Result reported to MDL not RDL

Lab Sample ID: S30926.02 (continued)
Sample Tag: JS-SB-15_SO-120221 (12-13)

Volatile Organics 5035 (Replicate 01), Method: SW5035A/8260C, Run Date: 12/09/21 18:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,3-Dichlorobenzene	Not detected	3,000		ug/kg	1420	541-73-1	Y
1,4-Dichlorobenzene	Not detected	3,000		ug/kg	1420	106-46-7	Y
1,2-Dichlorobenzene	Not detected	3,000		ug/kg	1420	95-50-1	Y
1,2,3-Trimethylbenzene	12,000	1,000		ug/kg	1420	526-73-8	Y
n-Butylbenzene	7,000	1,000		ug/kg	1420	104-51-8	Y
Hexachloroethane	Not detected	9,000		ug/kg	1420	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	7,000		ug/kg	1420	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	9,400		ug/kg	1420	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	9,400		ug/kg	1420	87-61-6	Y
Naphthalene	Not detected	7,000		ug/kg	1420	91-20-3	Y
2-Methylnaphthalene	11,000	3,000		ug/kg	1420	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S30926.03
Sample Tag: JS-SB-15_SO-120221 (16-17)
Collected Date/Time: 12/02/2021 16:40
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.303/17	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 19:09, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.9	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.9	109-99-9	
Chloroform	Not detected	60		ug/kg	58.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.9	56-23-5	
Benzene	Not detected	60		ug/kg	58.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.9	74-95-3	

Lab Sample ID: S30926.03 (continued)
Sample Tag: JS-SB-15_SO-120221 (16-17)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 19:09, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.9	10061-01-5	
Toluene	Not detected	60		ug/kg	58.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.9		
o-Xylene	Not detected	60		ug/kg	58.9	95-47-6	
Styrene	Not detected	60		ug/kg	58.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.9	98-82-8	
Bromoform	Not detected	100		ug/kg	58.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.9	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.04
Sample Tag: JS-SB-26_SO-120321 (16-17)
Collected Date/Time: 12/03/2021 10:30
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.351/17	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 06:11, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.8	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.8	109-99-9	
Chloroform	Not detected	60		ug/kg	63.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.8	56-23-5	
Benzene	Not detected	60		ug/kg	63.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.8	74-95-3	

Lab Sample ID: S30926.04 (continued)
Sample Tag: JS-SB-26_SO-120321 (16-17)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 06:11, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.8	10061-01-5	
Toluene	Not detected	60		ug/kg	63.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.8	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.8		
o-Xylene	Not detected	60		ug/kg	63.8	95-47-6	
Styrene	Not detected	60		ug/kg	63.8	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.8	98-82-8	
Bromoform	Not detected	100		ug/kg	63.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.8	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.8	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.8	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.8	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.8	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.05
Sample Tag: DUP-02_SO-120321
Collected Date/Time: 12/03/2021 00:01
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.976/17	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 06:33, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.6	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.6	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.6	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.6	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.6	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.6	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.6	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.6	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.6	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.6	109-99-9	
Chloroform	Not detected	60		ug/kg	60.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.6	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.6	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.6	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.6	56-23-5	
Benzene	Not detected	60		ug/kg	60.6	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.6	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.6	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.6	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.6	74-95-3	

Lab Sample ID: S30926.05 (continued)
Sample Tag: DUP-02_SO-120321

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 06:33, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.6	10061-01-5	
Toluene	Not detected	60		ug/kg	60.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.6	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.6	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.6	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.6	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.6		
o-Xylene	Not detected	60		ug/kg	60.6	95-47-6	
Styrene	Not detected	60		ug/kg	60.6	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.6	98-82-8	
Bromoform	Not detected	100		ug/kg	60.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.6	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.6	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.6	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.6	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.6	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.6	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.06
Sample Tag: JS-SB-20_SO-120321 (13.7-14.7)
Collected Date/Time: 12/03/2021 11:50
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	18.890/18	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 06:55, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.5	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.5	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.5	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.5	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.5	109-99-9	
Chloroform	Not detected	60		ug/kg	58.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.5	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.5	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.5	56-23-5	
Benzene	Not detected	60		ug/kg	58.5	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.5	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.5	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.5	74-95-3	

Lab Sample ID: S30926.06 (continued)
Sample Tag: JS-SB-20_SO-120321 (13.7-14.7)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 06:55, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-01-5	
Toluene	Not detected	60		ug/kg	58.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.5	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.5	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.5	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.5	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.5		
o-Xylene	Not detected	60		ug/kg	58.5	95-47-6	
Styrene	Not detected	60		ug/kg	58.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.5	98-82-8	
Bromoform	Not detected	100		ug/kg	58.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.5	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.5	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.5	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.5	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.5	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.07
Sample Tag: JS-SB-20_SO-120321 (16-17)
Collected Date/Time: 12/03/2021 12:10
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	21.386/21	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 07:19, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.9	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.9	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.9	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.9	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.9	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.9	109-99-9	
Chloroform	Not detected	60		ug/kg	63.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.9	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.9	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.9	56-23-5	
Benzene	Not detected	60		ug/kg	63.9	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.9	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.9	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.9	74-95-3	

Lab Sample ID: S30926.07 (continued)
Sample Tag: JS-SB-20_SO-120321 (16-17)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 07:19, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.9	10061-01-5	
Toluene	Not detected	60		ug/kg	63.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.9	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.9	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.9	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.9	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.9		
o-Xylene	Not detected	60		ug/kg	63.9	95-47-6	
Styrene	Not detected	60		ug/kg	63.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.9	98-82-8	
Bromoform	Not detected	100		ug/kg	63.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.9	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.9	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.9	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.9	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.9	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.9	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.08
Sample Tag: JS-SB-28_SO-120321 (5.25-6.25)
Collected Date/Time: 12/03/2021 14:20
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.203/19	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 07:41, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	72.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	72.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	72.8	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	72.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	72.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	72.8	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	72.8	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	72.8	75-71-8	
Chloromethane	Not detected	400		ug/kg	72.8	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	72.8	75-01-4	
Bromomethane	Not detected	300		ug/kg	72.8	74-83-9	
Chloroethane	Not detected	400		ug/kg	72.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	72.8	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	72.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	72.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	72.8	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	72.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	72.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	72.8	109-99-9	
Chloroform	Not detected	70		ug/kg	72.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	72.8	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	72.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	72.8	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	72.8	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	72.8	56-23-5	
Benzene	Not detected	70		ug/kg	72.8	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	72.8	107-06-2	
Trichloroethene	Not detected	70		ug/kg	72.8	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	72.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	72.8	75-27-4	
Dibromomethane	Not detected	400		ug/kg	72.8	74-95-3	

Lab Sample ID: S30926.08 (continued)
Sample Tag: JS-SB-28_SO-120321 (5.25-6.25)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 07:41, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	72.8	10061-01-5	
Toluene	Not detected	70		ug/kg	72.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	72.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	72.8	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	72.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	72.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	72.8	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	72.8	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	72.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	72.8	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	72.8	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	72.8		
o-Xylene	Not detected	70		ug/kg	72.8	95-47-6	
Styrene	Not detected	70		ug/kg	72.8	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	72.8	98-82-8	
Bromoform	Not detected	100		ug/kg	72.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	72.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	72.8	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	72.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	72.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	72.8	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	72.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	72.8	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	72.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	72.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	72.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	72.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	72.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	72.8	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	72.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	72.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	72.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	480		ug/kg	72.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	480		ug/kg	72.8	87-61-6	
Naphthalene	Not detected	400		ug/kg	72.8	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	72.8	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.09
Sample Tag: JS-SB-28_SO-120321 (17.5-18.5)
Collected Date/Time: 12/03/2021 14:30
Matrix: Soil
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	3.6	IR
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	18.646/18	SW5035A	12/06/21 11:40	NDK	

Inorganics

Method: SM2540B, Run Date: 12/08/21 16:15, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 08:04, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	64.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	64.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	64.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	64.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	64.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	64.3	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	64.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	64.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	64.3	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	64.3	75-01-4	
Bromomethane	Not detected	300		ug/kg	64.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	64.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	64.3	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	64.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	64.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	64.3	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	64.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	64.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	64.3	109-99-9	
Chloroform	Not detected	60		ug/kg	64.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	64.3	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	64.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	64.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	64.3	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	64.3	56-23-5	
Benzene	Not detected	60		ug/kg	64.3	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	64.3	107-06-2	
Trichloroethene	Not detected	60		ug/kg	64.3	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	64.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	64.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	64.3	74-95-3	

Lab Sample ID: S30926.09 (continued)
Sample Tag: JS-SB-28_SO-120321 (17.5-18.5)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 08:04, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	64.3	10061-01-5	
Toluene	Not detected	60		ug/kg	64.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	64.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	64.3	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	64.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	64.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	64.3	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	64.3	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	64.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	64.3	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	64.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	64.3		
o-Xylene	Not detected	60		ug/kg	64.3	95-47-6	
Styrene	Not detected	60		ug/kg	64.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	64.3	98-82-8	
Bromoform	Not detected	100		ug/kg	64.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	64.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	64.3	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	64.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	64.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	64.3	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	64.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	64.3	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	64.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	64.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	64.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	64.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	64.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	64.3	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	64.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	64.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	64.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	64.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	64.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	64.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	64.3	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S30926.10
Sample Tag: Trip Blank-02
Collected Date/Time: 12/03/2021 00:01
Matrix: Methanol
COC Reference: 137910

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.6	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.000/10	SW5035A	12/06/21 11:40	NDK	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 00:32, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	50	60-29-7	
Acetone	Not detected	1,000		ug/kg	50	67-64-1	
Methyl iodide	Not detected	100		ug/kg	50	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	50	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	50	107-13-1	
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	50	75-71-8	
Chloromethane	Not detected	300		ug/kg	50	74-87-3	
Vinyl chloride	Not detected	50		ug/kg	50	75-01-4	
Bromomethane	Not detected	200		ug/kg	50	74-83-9	
Chloroethane	Not detected	300		ug/kg	50	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4	
Methylene chloride	Not detected	100		ug/kg	50	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	50	109-99-9	
Chloroform	Not detected	50		ug/kg	50	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	50	74-97-5	
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5	
Benzene	Not detected	50		ug/kg	50	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2	
Trichloroethene	Not detected	50		ug/kg	50	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	50	75-27-4	
Dibromomethane	Not detected	300		ug/kg	50	74-95-3	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5	
Toluene	Not detected	50		ug/kg	50	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	50	110-57-6	

Lab Sample ID: S30926.10 (continued)
Sample Tag: Trip Blank-02

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/08/21 00:32, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	100		ug/kg	50	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	50	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	50	630-20-6	
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	50		
o-Xylene	Not detected	50		ug/kg	50	95-47-6	
Styrene	Not detected	50		ug/kg	50	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	50	98-82-8	
Bromoform	Not detected	100		ug/kg	50	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	50	96-18-4	
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1	
Bromobenzene	Not detected	100		ug/kg	50	108-86-1	
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	50	108-67-8	
tert-Butylbenzene	Not detected	50		ug/kg	50	98-06-6	
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	50	95-63-6	
sec-Butylbenzene	Not detected	50		ug/kg	50	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	50	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	50	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	50	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	50	95-50-1	
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	50	526-73-8	
n-Butylbenzene	Not detected	50		ug/kg	50	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	50	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	50	96-12-8	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	50	120-82-1	
1,2,3-Trichlorobenzene	Not detected	330		ug/kg	50	87-61-6	
Naphthalene	Not detected	300		ug/kg	50	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	50	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID: S30926
Client: ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936.00005
Submitted: 12/03/2021 16:10 Login User: MMC

Attention: Ian Drost
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX:
Email: Ian.Drost@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 3.6
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

137910

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Ian Drost
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: (614)985-9163, (248)994-2284 FAX NO.:
P.O. NO.:
E-MAIL ADDRESS: alexis.crisp@arcadis.com, ian.drost@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936.00005
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Joshua Dunn

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD. ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs (8260)	Weight	Special Instructions
30926.01	12/2/21	15:15	JS-SB-21_SO-120221(13-14)	S	2	1						1	X	X	CH4O Preservative
.02	12/2/21	16:35	JS-SB-15_SO-120221(12-13)	S	2	1						1	X	X	CH4O Preservative
.03	12/2/21	16:40	JS-SB-15_SO-120221(16-17)	S	2	1						1	X	X	CH4O Preservative
.04	12/3/21	10:30	JS-SB-20_SO-120321(16-17)	S	2	1						1	X	X	CH4O Preservative
.05	12/3/21	~	DUP-02_SO-120321	S	2	1						1	X	X	CH4O Preservative
.06	12/3/21	11:50	JS-SB-20_SO-120321(13.7-14.7)	S	2	1						1	X	X	CH4O Preservative
.07	12/3/21	12:10	JS-SB-20_SO-120321(16-17)	S	2	1						1	X	X	CH4O Preservative
.08	12/3/21	14:20	JS-SB-28_SO-120321(5.25-6.25)	S	2	1						1	X	X	CH4O Preservative
.09	12/3/21	14:30	JS-SB-28_SO-120321(17.5-18.5)	S	2	1						1	X	X	CH4O Preservative
.10	12/3/21		Trip Blank-02 (SD)	W	1							1	X		CH4O Preservative

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Joshua Dunn / Arcadis ☒ Sampler	DATE	TIME
		12/3/21	14:30
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		12/3/21	14:30
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		12/3/21	16:10
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
		12/3/21	16:10

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S31025.01(01)
Generated on 12/13/2021

Report to

Attention: Ian Drost
Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX:
Email: Ian.Drost@arcadis.com

Addtional Contacts: Alexis Crisp

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S31025.01-S31025.17
Project: 30075936.00005
Collected Date(s): 12/06/2021 - 12/07/2021
Submitted Date/Time: 12/07/2021 16:00
Sampled by: Joshua Dunn
P.O. #: 30075936.00005

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S31025.01	JS-SB-16_SO-120621 (14-15)	Soil	12/06/21 10:10
S31025.02	JS-SB-16_SO-120621 (16-17)	Soil	12/06/21 10:30
S31025.03	JS-SB-17_SO-120621 (10-11)	Soil	12/06/21 12:10
S31025.04	JS-SB-17_SO-120621 (14-15)	Soil	12/06/21 12:15
S31025.05	JS-SB-18_SO-120621 (15-16)	Soil	12/06/21 15:20
S31025.06	JS-SB-18_SO-120621 (17-18)	Soil	12/06/21 16:15
S31025.07	JS-SB-27_SO-120621 (13.5-14.5)	Soil	12/06/21 16:10
S31025.08	JS-SB-29_SO_120721 (7-8)	Soil	12/07/21 11:05
S31025.09	JS-SB-29_SO_120721 (7-8) MS	Soil	12/07/21 11:05
S31025.10	JS-SB-29_SO_120721 (7-8) MSD	Soil	12/07/21 11:05
S31025.11	DUP-03_SO-120721	Soil	12/07/21 00:01
S31025.12	DUP-04_SO-120721	Soil	12/07/21 00:01
S31025.13	JS-SB-29_SO-120721 (9-10)	Soil	12/07/21 10:55
S31025.14	JS-SB-29_SO-120721 (16-17)	Soil	12/07/21 11:40
S31025.15	Trip Blank-03	Methanol	12/07/21 00:01
S31025.16	Trip Blank-04	Methanol	12/07/21 00:01
S31025.17	JS-SB-30_SO-120721 (4.5-5.5)	Soil	12/07/21 14:20

Lab Sample ID: S31025.01
Sample Tag: JS-SB-16_SO-120621 (14-15)
Collected Date/Time: 12/06/2021 10:10
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.402/17	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 02:51, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59.8	60-29-7	
Acetone	Not detected	1,000		ug/kg	59.8	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59.8	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59.8	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.8	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59.8	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	59.8	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59.8	75-71-8	
Chloromethane	Not detected	300		ug/kg	59.8	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59.8	75-01-4	
Bromomethane	Not detected	200		ug/kg	59.8	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.8	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.8	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.8	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59.8	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.8	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.8	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.8	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.8	109-99-9	
Chloroform	Not detected	60		ug/kg	59.8	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59.8	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.8	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.8	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.8	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.8	56-23-5	
Benzene	Not detected	60		ug/kg	59.8	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.8	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59.8	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.8	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59.8	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59.8	74-95-3	

Lab Sample ID: S31025.01 (continued)
Sample Tag: JS-SB-16_SO-120621 (14-15)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 02:51, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.8	10061-01-5	
Toluene	Not detected	60		ug/kg	59.8	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.8	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.8	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.8	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.8	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59.8	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59.8	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.8	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.8	630-20-6	
Ethylbenzene	60	60		ug/kg	59.8	100-41-4	
p,m-Xylene	200	100		ug/kg	59.8		
o-Xylene	Not detected	60		ug/kg	59.8	95-47-6	
Styrene	Not detected	60		ug/kg	59.8	100-42-5	
Isopropylbenzene	300	300		ug/kg	59.8	98-82-8	
Bromoform	Not detected	100		ug/kg	59.8	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.8	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.8	96-18-4	
n-Propylbenzene	1,900	60		ug/kg	59.8	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59.8	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.8	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59.8	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.8	95-63-6	
sec-Butylbenzene	130	60		ug/kg	59.8	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59.8	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.8	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.8	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.8	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.8	526-73-8	
n-Butylbenzene	300	60		ug/kg	59.8	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59.8	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.8	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.8	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.8	87-61-6	
Naphthalene	1,400	300		ug/kg	59.8	91-20-3	
2-Methylnaphthalene	300	100		ug/kg	59.8	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.02
Sample Tag: JS-SB-16_SO-120621 (16-17)
Collected Date/Time: 12/06/2021 10:30
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.551/17	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 03:13, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.2	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.2	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.2	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.2	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.2	107-13-1	
2-Butanone (MEK)	Not detected	870		ug/kg	58.2	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.2	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.2	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.2	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.2	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.2	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.2	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.2	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.2	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.2	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.2	109-99-9	
Chloroform	Not detected	60		ug/kg	58.2	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.2	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.2	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.2	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.2	56-23-5	
Benzene	Not detected	60		ug/kg	58.2	71-43-2	
1,2-Dichloroethane	150	60		ug/kg	58.2	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.2	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.2	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.2	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.2	74-95-3	

Lab Sample ID: S31025.02 (continued)
Sample Tag: JS-SB-16_SO-120621 (16-17)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 03:13, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.2	10061-01-5	
Toluene	Not detected	60		ug/kg	58.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.2	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.2	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.2	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.2	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.2	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.2	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.2		
o-Xylene	Not detected	60		ug/kg	58.2	95-47-6	
Styrene	Not detected	60		ug/kg	58.2	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.2	98-82-8	
Bromoform	Not detected	100		ug/kg	58.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.2	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.2	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.2	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.2	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.2	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.2	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.2	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.2	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.2	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.2	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.2	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	58.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	380		ug/kg	58.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	380		ug/kg	58.2	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.2	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.2	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.03
Sample Tag: JS-SB-17_SO-120621 (10-11)
Collected Date/Time: 12/06/2021 12:10
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	19.436/19	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	86	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 03:36, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65	60-29-7	
Acetone	Not detected	1,000		ug/kg	65	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65	107-13-1	
2-Butanone (MEK)	Not detected	980		ug/kg	65	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65	75-71-8	
Chloromethane	Not detected	300		ug/kg	65	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65	75-01-4	
Bromomethane	Not detected	300		ug/kg	65	74-83-9	
Chloroethane	Not detected	300		ug/kg	65	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65	109-99-9	
Chloroform	Not detected	70		ug/kg	65	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65	56-23-5	
Benzene	Not detected	70		ug/kg	65	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65	74-95-3	

Lab Sample ID: S31025.03 (continued)
Sample Tag: JS-SB-17_SO-120621 (10-11)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 03:36, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65	10061-01-5	
Toluene	Not detected	70		ug/kg	65	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	65	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65		
o-Xylene	Not detected	70		ug/kg	65	95-47-6	
Styrene	Not detected	70		ug/kg	65	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65	98-82-8	
Bromoform	Not detected	100		ug/kg	65	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65	96-18-4	
n-Propylbenzene	700	70		ug/kg	65	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65	95-63-6	
sec-Butylbenzene	200	70		ug/kg	65	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65	526-73-8	
n-Butylbenzene	490	70		ug/kg	65	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65	87-61-6	
Naphthalene	Not detected	300		ug/kg	65	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.04
Sample Tag: JS-SB-17_SO-120621 (14-15)
Collected Date/Time: 12/06/2021 12:15
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	20.175/20	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	91	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 03:59, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59.4	60-29-7	
Acetone	Not detected	1,000		ug/kg	59.4	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59.4	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59.4	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59.4	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59.4	107-13-1	
2-Butanone (MEK)	Not detected	890		ug/kg	59.4	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59.4	75-71-8	
Chloromethane	Not detected	300		ug/kg	59.4	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59.4	75-01-4	
Bromomethane	Not detected	200		ug/kg	59.4	74-83-9	
Chloroethane	Not detected	300		ug/kg	59.4	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59.4	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59.4	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59.4	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59.4	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59.4	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59.4	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59.4	109-99-9	
Chloroform	Not detected	60		ug/kg	59.4	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59.4	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59.4	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.4	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59.4	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59.4	56-23-5	
Benzene	Not detected	60		ug/kg	59.4	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59.4	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59.4	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59.4	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59.4	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59.4	74-95-3	

Lab Sample ID: S31025.04 (continued)
Sample Tag: JS-SB-17_SO-120621 (14-15)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 03:59, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59.4	10061-01-5	
Toluene	Not detected	60		ug/kg	59.4	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59.4	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59.4	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59.4	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59.4	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59.4	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59.4	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59.4	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59.4	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	59.4	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	59.4		
o-Xylene	Not detected	60		ug/kg	59.4	95-47-6	
Styrene	Not detected	60		ug/kg	59.4	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59.4	98-82-8	
Bromoform	Not detected	100		ug/kg	59.4	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59.4	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59.4	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	59.4	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59.4	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59.4	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59.4	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59.4	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	59.4	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59.4	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59.4	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	59.4	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59.4	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59.4	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	59.4	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59.4	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59.4	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59.4	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59.4	87-61-6	
Naphthalene	Not detected	300		ug/kg	59.4	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	59.4	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.05
Sample Tag: JS-SB-18_SO-120621 (15-16)
Collected Date/Time: 12/06/2021 15:20
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	16.730/16	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 04:22, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	58.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	58.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	58.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	58.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	58.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	58.7	107-13-1	
2-Butanone (MEK)	Not detected	880		ug/kg	58.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	58.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	58.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	58.7	75-01-4	
Bromomethane	Not detected	200		ug/kg	58.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	58.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	58.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	58.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	58.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	58.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	58.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	58.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	58.7	109-99-9	
Chloroform	Not detected	60		ug/kg	58.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	58.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	58.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	58.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	58.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	58.7	56-23-5	
Benzene	6,400	60		ug/kg	58.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	58.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	58.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	58.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	58.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	58.7	74-95-3	

Lab Sample ID: S31025.05 (continued)
Sample Tag: JS-SB-18_SO-120621 (15-16)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 04:22, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	58.7	10061-01-5	
Toluene	Not detected	60		ug/kg	58.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	58.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	58.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	58.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	58.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	58.7	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	58.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	58.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	58.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	58.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	58.7		
o-Xylene	Not detected	60		ug/kg	58.7	95-47-6	
Styrene	Not detected	60		ug/kg	58.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	58.7	98-82-8	
Bromoform	Not detected	100		ug/kg	58.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	58.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	58.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	58.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	58.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	58.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	58.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	58.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	58.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	58.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	58.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	58.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	58.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	58.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	58.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	58.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	58.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	58.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	58.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	58.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	58.7	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.06
Sample Tag: JS-SB-18_SO-120621 (17-18)
Collected Date/Time: 12/06/2021 16:15
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	18.147/18	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 04:44, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.7	107-13-1	
2-Butanone (MEK)	Not detected	910		ug/kg	60.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.7	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.7	109-99-9	
Chloroform	Not detected	60		ug/kg	60.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.7	56-23-5	
Benzene	Not detected	60		ug/kg	60.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.7	74-95-3	

Lab Sample ID: S31025.06 (continued)
Sample Tag: JS-SB-18_SO-120621 (17-18)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 04:44, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.7	10061-01-5	
Toluene	Not detected	60		ug/kg	60.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.7	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.7		
o-Xylene	Not detected	60		ug/kg	60.7	95-47-6	
Styrene	Not detected	60		ug/kg	60.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.7	98-82-8	
Bromoform	Not detected	100		ug/kg	60.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.7	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.07
Sample Tag: JS-SB-27_SO-120621 (13.5-14.5)
Collected Date/Time: 12/06/2021 16:10
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.876/17	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	93	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 05:07, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	54.9	60-29-7	
Acetone	Not detected	1,000		ug/kg	54.9	67-64-1	
Methyl iodide	Not detected	100		ug/kg	54.9	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	54.9	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	54.9	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	54.9	107-13-1	
2-Butanone (MEK)	Not detected	820		ug/kg	54.9	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	54.9	75-71-8	
Chloromethane	Not detected	300		ug/kg	54.9	74-87-3	
Vinyl chloride	Not detected	50		ug/kg	54.9	75-01-4	
Bromomethane	Not detected	200		ug/kg	54.9	74-83-9	
Chloroethane	Not detected	300		ug/kg	54.9	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	54.9	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	54.9	75-35-4	
Methylene chloride	Not detected	100		ug/kg	54.9	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	54.9	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	54.9	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	54.9	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	54.9	109-99-9	
Chloroform	Not detected	50		ug/kg	54.9	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	54.9	74-97-5	
1,1,1-Trichloroethane	Not detected	50		ug/kg	54.9	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	54.9	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	54.9	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	54.9	56-23-5	
Benzene	Not detected	50		ug/kg	54.9	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	54.9	107-06-2	
Trichloroethene	Not detected	50		ug/kg	54.9	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	54.9	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	54.9	75-27-4	
Dibromomethane	Not detected	300		ug/kg	54.9	74-95-3	

Lab Sample ID: S31025.07 (continued)
Sample Tag: JS-SB-27_SO-120621 (13.5-14.5)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 05:07, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	50		ug/kg	54.9	10061-01-5	
Toluene	Not detected	50		ug/kg	54.9	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	54.9	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	54.9	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	54.9	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	54.9	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	54.9	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	54.9	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	54.9	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	54.9	630-20-6	
Ethylbenzene	Not detected	50		ug/kg	54.9	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	54.9		
o-Xylene	Not detected	50		ug/kg	54.9	95-47-6	
Styrene	Not detected	50		ug/kg	54.9	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	54.9	98-82-8	
Bromoform	Not detected	100		ug/kg	54.9	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	54.9	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	54.9	96-18-4	
n-Propylbenzene	Not detected	50		ug/kg	54.9	103-65-1	
Bromobenzene	Not detected	100		ug/kg	54.9	108-86-1	
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	54.9	108-67-8	
tert-Butylbenzene	Not detected	50		ug/kg	54.9	98-06-6	
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	54.9	95-63-6	
sec-Butylbenzene	Not detected	50		ug/kg	54.9	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	54.9	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	54.9	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	54.9	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	54.9	95-50-1	
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	54.9	526-73-8	
n-Butylbenzene	Not detected	50		ug/kg	54.9	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	54.9	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	54.9	96-12-8	
1,2,4-Trichlorobenzene	Not detected	360		ug/kg	54.9	120-82-1	
1,2,3-Trichlorobenzene	Not detected	360		ug/kg	54.9	87-61-6	
Naphthalene	Not detected	300		ug/kg	54.9	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	54.9	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.08
Sample Tag: JS-SB-29_SO_120721 (7-8)
Collected Date/Time: 12/07/2021 11:05
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	9.966/10	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 05:30, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	61.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	61.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	61.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	61.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	61.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	61.3	107-13-1	
2-Butanone (MEK)	Not detected	920		ug/kg	61.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	61.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	61.3	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	61.3	75-01-4	
Bromomethane	Not detected	200		ug/kg	61.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	61.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	61.3	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	61.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	61.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	61.3	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	61.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	61.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	61.3	109-99-9	
Chloroform	Not detected	60		ug/kg	61.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	61.3	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	61.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	61.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	61.3	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	61.3	56-23-5	
Benzene	Not detected	60		ug/kg	61.3	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	61.3	107-06-2	
Trichloroethene	Not detected	60		ug/kg	61.3	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	61.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	61.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	61.3	74-95-3	

Lab Sample ID: S31025.08 (continued)
Sample Tag: JS-SB-29_SO_120721 (7-8)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 05:30, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	61.3	10061-01-5	
Toluene	Not detected	60		ug/kg	61.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	61.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	61.3	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	61.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	61.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	61.3	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	61.3	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	61.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	61.3	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	61.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	61.3		
o-Xylene	Not detected	60		ug/kg	61.3	95-47-6	
Styrene	Not detected	60		ug/kg	61.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	61.3	98-82-8	
Bromoform	Not detected	100		ug/kg	61.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	61.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	61.3	96-18-4	
n-Propylbenzene	1,200	60		ug/kg	61.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	61.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	61.3	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	61.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	61.3	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	61.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	61.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	61.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	61.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	61.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	61.3	526-73-8	
n-Butylbenzene	500	60		ug/kg	61.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	61.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	61.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	61.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	61.3	87-61-6	
Naphthalene	400	300		ug/kg	61.3	91-20-3	
2-Methylnaphthalene	500	100		ug/kg	61.3	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.09
Sample Tag: JS-SB-29_SO_120721 (7-8) MS
Collected Date/Time: 12/07/2021 11:05
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.309/10	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	90	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 00:35, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	2,600	200		ug/kg	59.4	60-29-7	1
Acetone	4,000	1,000		ug/kg	59.4	67-64-1	1
Methyl iodide	2,500	100		ug/kg	59.4	74-88-4	1
Carbon disulfide	2,700	300		ug/kg	59.4	75-15-0	1
tert-Methyl butyl ether (MTBE)	2,800	200		ug/kg	59.4	1634-04-4	1
Acrylonitrile	3,300	100		ug/kg	59.4	107-13-1	1
2-Butanone (MEK)	2,590	890		ug/kg	59.4	78-93-3	1
Dichlorodifluoromethane	2,400	300		ug/kg	59.4	75-71-8	1
Chloromethane	2,700	300		ug/kg	59.4	74-87-3	1
Vinyl chloride	2,820	60		ug/kg	59.4	75-01-4	1
Bromomethane	1,600	200		ug/kg	59.4	74-83-9	1
Chloroethane	1,500	300		ug/kg	59.4	75-00-3	1
Trichlorofluoromethane	1,800	100		ug/kg	59.4	75-69-4	1
1,1-Dichloroethene	2,530	60		ug/kg	59.4	75-35-4	1
Methylene chloride	2,600	100		ug/kg	59.4	75-09-2	1
trans-1,2-Dichloroethene	2,630	60		ug/kg	59.4	156-60-5	1
1,1-Dichloroethane	2,710	60		ug/kg	59.4	75-34-3	1
cis-1,2-Dichloroethene	2,730	60		ug/kg	59.4	156-59-2	1
Tetrahydrofuran*	3,000	1,000		ug/kg	59.4	109-99-9	1
Chloroform	2,810	60		ug/kg	59.4	67-66-3	1
Bromochloromethane	2,600	100		ug/kg	59.4	74-97-5	1
1,1,1-Trichloroethane	2,400	60		ug/kg	59.4	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59.4	108-10-1	1
2-Hexanone	3,000	3,000		ug/kg	59.4	591-78-6	1
Carbon tetrachloride	2,310	60		ug/kg	59.4	56-23-5	1
Benzene	2,590	60		ug/kg	59.4	71-43-2	1
1,2-Dichloroethane	2,290	60		ug/kg	59.4	107-06-2	1
Trichloroethene	2,920	60		ug/kg	59.4	79-01-6	1
1,2-Dichloropropane	2,700	60		ug/kg	59.4	78-87-5	1
Bromodichloromethane	3,000	100		ug/kg	59.4	75-27-4	1

1-Spiked at 2.97mg/kg.

Lab Sample ID: S31025.09 (continued)
Sample Tag: JS-SB-29_SO_120721 (7-8) MS

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 00:35, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromomethane	2,500	300		ug/kg	59.4	74-95-3	1
cis-1,3-Dichloropropene	2,720	60		ug/kg	59.4	10061-01-5	1
Toluene	2,450	60		ug/kg	59.4	108-88-3	1
trans-1,3-Dichloropropene	2,700	60		ug/kg	59.4	10061-02-6	1
1,1,2-Trichloroethane	2,740	60		ug/kg	59.4	79-00-5	1
Tetrachloroethene	2,320	60		ug/kg	59.4	127-18-4	1
trans-1,4-Dichloro-2-butene	2,410	60		ug/kg	59.4	110-57-6	1
Dibromochloromethane	2,600	100		ug/kg	59.4	124-48-1	1
1,2-Dibromoethane	2,600	20		ug/kg	59.4	106-93-4	1
Chlorobenzene	2,460	60		ug/kg	59.4	108-90-7	1
1,1,1,2-Tetrachloroethane	2,500	100		ug/kg	59.4	630-20-6	1
Ethylbenzene	2,490	60		ug/kg	59.4	100-41-4	1
p,m-Xylene	4,800	100		ug/kg	59.4		1
o-Xylene	2,420	60		ug/kg	59.4	95-47-6	1
Styrene	2,420	60		ug/kg	59.4	100-42-5	1
Isopropylbenzene	2,600	300		ug/kg	59.4	98-82-8	1
Bromoform	2,600	100		ug/kg	59.4	75-25-2	1
1,1,2,2-Tetrachloroethane	2,260	60		ug/kg	59.4	79-34-5	1
1,2,3-Trichloropropane	2,500	100		ug/kg	59.4	96-18-4	1
n-Propylbenzene	3,550	60		ug/kg	59.4	103-65-1	1
Bromobenzene	2,400	100		ug/kg	59.4	108-86-1	1
1,3,5-Trimethylbenzene	2,400	60		ug/kg	59.4	108-67-8	1
tert-Butylbenzene	2,290	60		ug/kg	59.4	98-06-6	1
1,2,4-Trimethylbenzene	2,320	60		ug/kg	59.4	95-63-6	1
sec-Butylbenzene	2,690	60		ug/kg	59.4	135-98-8	1
p-Isopropyltoluene	2,500	100		ug/kg	59.4	99-87-6	1
1,3-Dichlorobenzene	2,400	100		ug/kg	59.4	541-73-1	1
1,4-Dichlorobenzene	2,500	100		ug/kg	59.4	106-46-7	1
1,2-Dichlorobenzene	2,500	100		ug/kg	59.4	95-50-1	1
1,2,3-Trimethylbenzene	2,600	60		ug/kg	59.4	526-73-8	1
n-Butylbenzene	2,930	60		ug/kg	59.4	104-51-8	1
Hexachloroethane	2,800	400		ug/kg	59.4	67-72-1	1
1,2-Dibromo-3-chloropropane	2,900	300		ug/kg	59.4	96-12-8	1
1,2,4-Trichlorobenzene	2,360	390		ug/kg	59.4	120-82-1	1
1,2,3-Trichlorobenzene	2,400	390		ug/kg	59.4	87-61-6	1
Naphthalene	3,000	300		ug/kg	59.4	91-20-3	1
2-Methylnaphthalene	3,000	100		ug/kg	59.4	91-57-6	1

1-Spiked at 2.97mg/kg.

Lab Sample ID: S31025.10
Sample Tag: JS-SB-29_SO_120721 (7-8) MSD
Collected Date/Time: 12/07/2021 11:05
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.938/10	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 00:58, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	2,600	200		ug/kg	57.5	60-29-7	1
Acetone	3,000	1,000		ug/kg	57.5	67-64-1	1
Methyl iodide	2,600	100		ug/kg	57.5	74-88-4	1
Carbon disulfide	2,800	300		ug/kg	57.5	75-15-0	1
tert-Methyl butyl ether (MTBE)	2,900	200		ug/kg	57.5	1634-04-4	1
Acrylonitrile	3,400	100		ug/kg	57.5	107-13-1	1
2-Butanone (MEK)	2,460	860		ug/kg	57.5	78-93-3	1
Dichlorodifluoromethane	2,500	300		ug/kg	57.5	75-71-8	1
Chloromethane	2,800	300		ug/kg	57.5	74-87-3	1
Vinyl chloride	2,940	60		ug/kg	57.5	75-01-4	1
Bromomethane	1,600	200		ug/kg	57.5	74-83-9	1
Chloroethane	1,600	300		ug/kg	57.5	75-00-3	1
Trichlorofluoromethane	1,700	100		ug/kg	57.5	75-69-4	1
1,1-Dichloroethene	2,550	60		ug/kg	57.5	75-35-4	1
Methylene chloride	2,600	100		ug/kg	57.5	75-09-2	1
trans-1,2-Dichloroethene	2,650	60		ug/kg	57.5	156-60-5	1
1,1-Dichloroethane	2,690	60		ug/kg	57.5	75-34-3	1
cis-1,2-Dichloroethene	2,700	60		ug/kg	57.5	156-59-2	1
Tetrahydrofuran*	3,000	1,000		ug/kg	57.5	109-99-9	1
Chloroform	2,790	60		ug/kg	57.5	67-66-3	1
Bromochloromethane	2,600	100		ug/kg	57.5	74-97-5	1
1,1,1-Trichloroethane	2,450	60		ug/kg	57.5	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	57.5	108-10-1	1
2-Hexanone	3,000	3,000		ug/kg	57.5	591-78-6	1
Carbon tetrachloride	2,380	60		ug/kg	57.5	56-23-5	1
Benzene	2,580	60		ug/kg	57.5	71-43-2	1
1,2-Dichloroethane	2,280	60		ug/kg	57.5	107-06-2	1
Trichloroethene	2,500	60		ug/kg	57.5	79-01-6	1
1,2-Dichloropropane	2,690	60		ug/kg	57.5	78-87-5	1
Bromodichloromethane	3,000	100		ug/kg	57.5	75-27-4	1

1-Spiked at 2.88mg/kg.

Lab Sample ID: S31025.10 (continued)
Sample Tag: JS-SB-29_SO_120721 (7-8) MSD

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 00:58, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromomethane	2,500	300		ug/kg	57.5	74-95-3	1
cis-1,3-Dichloropropene	2,690	60		ug/kg	57.5	10061-01-5	1
Toluene	2,420	60		ug/kg	57.5	108-88-3	1
trans-1,3-Dichloropropene	2,670	60		ug/kg	57.5	10061-02-6	1
1,1,2-Trichloroethane	2,760	60		ug/kg	57.5	79-00-5	1
Tetrachloroethene	2,300	60		ug/kg	57.5	127-18-4	1
trans-1,4-Dichloro-2-butene	2,460	60		ug/kg	57.5	110-57-6	1
Dibromochloromethane	2,600	100		ug/kg	57.5	124-48-1	1
1,2-Dibromoethane	2,680	20		ug/kg	57.5	106-93-4	M1
Chlorobenzene	2,440	60		ug/kg	57.5	108-90-7	1
1,1,1,2-Tetrachloroethane	2,500	100		ug/kg	57.5	630-20-6	1
Ethylbenzene	2,510	60		ug/kg	57.5	100-41-4	1
p,m-Xylene	4,800	100		ug/kg	57.5		1
o-Xylene	2,430	60		ug/kg	57.5	95-47-6	1
Styrene	2,430	60		ug/kg	57.5	100-42-5	1
Isopropylbenzene	2,600	300		ug/kg	57.5	98-82-8	1
Bromoform	2,700	100		ug/kg	57.5	75-25-2	1
1,1,2,2-Tetrachloroethane	2,780	60		ug/kg	57.5	79-34-5	1
1,2,3-Trichloropropane	2,600	100		ug/kg	57.5	96-18-4	1
n-Propylbenzene	3,700	60		ug/kg	57.5	103-65-1	1
Bromobenzene	2,400	100		ug/kg	57.5	108-86-1	1
1,3,5-Trimethylbenzene	2,410	60		ug/kg	57.5	108-67-8	1
tert-Butylbenzene	2,340	60		ug/kg	57.5	98-06-6	1
1,2,4-Trimethylbenzene	2,330	60		ug/kg	57.5	95-63-6	1
sec-Butylbenzene	2,770	60		ug/kg	57.5	135-98-8	1
p-Isopropyltoluene	2,600	100		ug/kg	57.5	99-87-6	1
1,3-Dichlorobenzene	2,400	100		ug/kg	57.5	541-73-1	1
1,4-Dichlorobenzene	2,500	100		ug/kg	57.5	106-46-7	1
1,2-Dichlorobenzene	2,500	100		ug/kg	57.5	95-50-1	1
1,2,3-Trimethylbenzene	2,610	60		ug/kg	57.5	526-73-8	1
n-Butylbenzene	3,270	60		ug/kg	57.5	104-51-8	1
Hexachloroethane	2,900	300		ug/kg	57.5	67-72-1	1
1,2-Dibromo-3-chloropropane	3,200	300		ug/kg	57.5	96-12-8	1
1,2,4-Trichlorobenzene	2,610	380		ug/kg	57.5	120-82-1	1
1,2,3-Trichlorobenzene	2,670	380		ug/kg	57.5	87-61-6	1
Naphthalene	3,100	300		ug/kg	57.5	91-20-3	1
2-Methylnaphthalene	3,800	100		ug/kg	57.5	91-57-6	1

1-Spiked at 2.88mg/kg.
M-Result reported to MDL not RDL

Lab Sample ID: S31025.11
Sample Tag: DUP-03_SO-120721
Collected Date/Time: 12/07/2021 00:01
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	9.765/10	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 05:53, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	63.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	63.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	63.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	63.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	63.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	63.7	107-13-1	
2-Butanone (MEK)	Not detected	960		ug/kg	63.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	63.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	63.7	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	63.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	63.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	63.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	63.7	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	63.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	63.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	63.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	63.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	63.7	109-99-9	
Chloroform	Not detected	60		ug/kg	63.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	63.7	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	63.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	63.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	63.7	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	63.7	56-23-5	
Benzene	Not detected	60		ug/kg	63.7	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	63.7	107-06-2	
Trichloroethene	Not detected	60		ug/kg	63.7	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	63.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	63.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	63.7	74-95-3	

Lab Sample ID: S31025.11 (continued)
Sample Tag: DUP-03_SO-120721

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 05:53, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-01-5	
Toluene	Not detected	60		ug/kg	63.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	63.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	63.7	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	63.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	63.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	63.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	63.7	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	63.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	63.7	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	63.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	63.7		
o-Xylene	Not detected	60		ug/kg	63.7	95-47-6	
Styrene	Not detected	60		ug/kg	63.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	63.7	98-82-8	
Bromoform	Not detected	100		ug/kg	63.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	63.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	63.7	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	63.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	63.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	63.7	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	63.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	63.7	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	63.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	63.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	63.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	63.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	63.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	63.7	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	63.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	63.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	63.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	420		ug/kg	63.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	420		ug/kg	63.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	63.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	63.7	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.12
Sample Tag: DUP-04_SO-120721
Collected Date/Time: 12/07/2021 00:01
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	11.416/11	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	89	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 06:15, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	60.3	60-29-7	
Acetone	Not detected	1,000		ug/kg	60.3	67-64-1	
Methyl iodide	Not detected	100		ug/kg	60.3	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	60.3	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	60.3	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	60.3	107-13-1	
2-Butanone (MEK)	Not detected	900		ug/kg	60.3	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	60.3	75-71-8	
Chloromethane	Not detected	300		ug/kg	60.3	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	60.3	75-01-4	
Bromomethane	Not detected	200		ug/kg	60.3	74-83-9	
Chloroethane	Not detected	300		ug/kg	60.3	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	60.3	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	60.3	75-35-4	
Methylene chloride	Not detected	100		ug/kg	60.3	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	60.3	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	60.3	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	60.3	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	60.3	109-99-9	
Chloroform	Not detected	60		ug/kg	60.3	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	60.3	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	60.3	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	60.3	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	60.3	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	60.3	56-23-5	
Benzene	Not detected	60		ug/kg	60.3	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	60.3	107-06-2	
Trichloroethene	Not detected	60		ug/kg	60.3	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	60.3	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	60.3	75-27-4	
Dibromomethane	Not detected	300		ug/kg	60.3	74-95-3	

Lab Sample ID: S31025.12 (continued)
Sample Tag: DUP-04_SO-120721

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 06:15, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	60.3	10061-01-5	
Toluene	Not detected	60		ug/kg	60.3	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	60.3	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	60.3	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	60.3	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	60.3	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	60.3	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	60.3	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	60.3	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	60.3	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	60.3	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	60.3		
o-Xylene	Not detected	60		ug/kg	60.3	95-47-6	
Styrene	Not detected	60		ug/kg	60.3	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	60.3	98-82-8	
Bromoform	Not detected	100		ug/kg	60.3	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	60.3	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	60.3	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	60.3	103-65-1	
Bromobenzene	Not detected	100		ug/kg	60.3	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	60.3	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	60.3	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	60.3	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	60.3	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	60.3	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	60.3	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	60.3	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	60.3	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	60.3	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	60.3	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	60.3	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	60.3	96-12-8	
1,2,4-Trichlorobenzene	Not detected	400		ug/kg	60.3	120-82-1	
1,2,3-Trichlorobenzene	Not detected	400		ug/kg	60.3	87-61-6	
Naphthalene	Not detected	300		ug/kg	60.3	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	60.3	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.13
Sample Tag: JS-SB-29_SO-120721 (9-10)
Collected Date/Time: 12/07/2021 10:55
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.879/10	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 06:37, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	59	60-29-7	
Acetone	Not detected	1,000		ug/kg	59	67-64-1	
Methyl iodide	Not detected	100		ug/kg	59	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	59	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	59	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	59	107-13-1	
2-Butanone (MEK)	Not detected	890		ug/kg	59	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	59	75-71-8	
Chloromethane	Not detected	300		ug/kg	59	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	59	75-01-4	
Bromomethane	Not detected	200		ug/kg	59	74-83-9	
Chloroethane	Not detected	300		ug/kg	59	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	59	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	59	75-35-4	
Methylene chloride	Not detected	100		ug/kg	59	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	59	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	59	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	59	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	59	109-99-9	
Chloroform	Not detected	60		ug/kg	59	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	59	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	59	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	59	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	59	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	59	56-23-5	
Benzene	Not detected	60		ug/kg	59	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	59	107-06-2	
Trichloroethene	Not detected	60		ug/kg	59	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	59	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	59	75-27-4	
Dibromomethane	Not detected	300		ug/kg	59	74-95-3	

Lab Sample ID: S31025.13 (continued)
Sample Tag: JS-SB-29_SO-120721 (9-10)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 06:37, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	60		ug/kg	59	10061-01-5	
Toluene	Not detected	60		ug/kg	59	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	59	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	59	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	59	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	59	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	59	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	59	106-93-4	M
Chlorobenzene	Not detected	60		ug/kg	59	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	59	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	59	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	59		
o-Xylene	Not detected	60		ug/kg	59	95-47-6	
Styrene	Not detected	60		ug/kg	59	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	59	98-82-8	
Bromoform	Not detected	100		ug/kg	59	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	59	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	59	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	59	103-65-1	
Bromobenzene	Not detected	100		ug/kg	59	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	59	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	59	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	59	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	59	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	59	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	59	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	59	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	59	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	59	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	59	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	59	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	59	96-12-8	
1,2,4-Trichlorobenzene	Not detected	390		ug/kg	59	120-82-1	
1,2,3-Trichlorobenzene	Not detected	390		ug/kg	59	87-61-6	
Naphthalene	Not detected	300		ug/kg	59	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	59	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.14
Sample Tag: JS-SB-29_SO-120721 (16-17)
Collected Date/Time: 12/07/2021 11:40
Matrix: Soil
COC Reference: 137911

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	9.340/10	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	88	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 07:00, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	67.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	67.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	67.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	67.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	67.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	67.7	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	67.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	67.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	67.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	67.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	67.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	67.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	67.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	67.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	67.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	67.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	67.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	67.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	67.7	109-99-9	
Chloroform	Not detected	70		ug/kg	67.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	67.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	67.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	67.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	67.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	67.7	56-23-5	
Benzene	Not detected	70		ug/kg	67.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	67.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	67.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	67.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	67.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	67.7	74-95-3	

Lab Sample ID: S31025.14 (continued)
Sample Tag: JS-SB-29_SO-120721 (16-17)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 07:00, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	67.7	10061-01-5	
Toluene	Not detected	70		ug/kg	67.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	67.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	67.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	67.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	67.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	67.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	67.7	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	67.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	67.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	67.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	67.7		
o-Xylene	Not detected	70		ug/kg	67.7	95-47-6	
Styrene	Not detected	70		ug/kg	67.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	67.7	98-82-8	
Bromoform	Not detected	100		ug/kg	67.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	67.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	67.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	67.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	67.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	67.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	67.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	67.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	67.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	67.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	67.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	67.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	67.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	67.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	67.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	67.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	67.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	450		ug/kg	67.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	450		ug/kg	67.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	67.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	67.7	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.15
Sample Tag: Trip Blank-03
Collected Date/Time: 12/07/2021 00:01
Matrix: Methanol
COC Reference: 137912

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.000/10	SW5035A	12/08/21 12:50	NDK	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 02:05, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	50	60-29-7	
Acetone	Not detected	1,000		ug/kg	50	67-64-1	
Methyl iodide	Not detected	100		ug/kg	50	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	50	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	50	107-13-1	
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	50	75-71-8	
Chloromethane	Not detected	300		ug/kg	50	74-87-3	
Vinyl chloride	Not detected	50		ug/kg	50	75-01-4	
Bromomethane	Not detected	200		ug/kg	50	74-83-9	
Chloroethane	Not detected	300		ug/kg	50	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4	
Methylene chloride	Not detected	100		ug/kg	50	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	50	109-99-9	
Chloroform	Not detected	50		ug/kg	50	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	50	74-97-5	
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5	
Benzene	Not detected	50		ug/kg	50	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2	
Trichloroethene	Not detected	50		ug/kg	50	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	50	75-27-4	
Dibromomethane	Not detected	300		ug/kg	50	74-95-3	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5	
Toluene	Not detected	50		ug/kg	50	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	50	110-57-6	

Lab Sample ID: S31025.15 (continued)
Sample Tag: Trip Blank-03

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 02:05, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	100		ug/kg	50	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	50	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	50	630-20-6	
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	50		
o-Xylene	Not detected	50		ug/kg	50	95-47-6	
Styrene	Not detected	50		ug/kg	50	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	50	98-82-8	
Bromoform	Not detected	100		ug/kg	50	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	50	96-18-4	
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1	
Bromobenzene	Not detected	100		ug/kg	50	108-86-1	
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	50	108-67-8	
tert-Butylbenzene	Not detected	50		ug/kg	50	98-06-6	
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	50	95-63-6	
sec-Butylbenzene	Not detected	50		ug/kg	50	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	50	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	50	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	50	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	50	95-50-1	
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	50	526-73-8	
n-Butylbenzene	Not detected	50		ug/kg	50	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	50	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	50	96-12-8	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	50	120-82-1	
1,2,3-Trichlorobenzene	Not detected	330		ug/kg	50	87-61-6	
Naphthalene	Not detected	300		ug/kg	50	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	50	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.16
Sample Tag: Trip Blank-04
Collected Date/Time: 12/07/2021 00:01
Matrix: Methanol
COC Reference: 137912

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	10.000/10	SW5035A	12/08/21 12:50	NDK	

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 02:28, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	50	60-29-7	
Acetone	Not detected	1,000		ug/kg	50	67-64-1	
Methyl iodide	Not detected	100		ug/kg	50	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	50	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	50	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	50	107-13-1	
2-Butanone (MEK)	Not detected	750		ug/kg	50	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	50	75-71-8	
Chloromethane	Not detected	300		ug/kg	50	74-87-3	
Vinyl chloride	Not detected	50		ug/kg	50	75-01-4	
Bromomethane	Not detected	200		ug/kg	50	74-83-9	
Chloroethane	Not detected	300		ug/kg	50	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	50	75-69-4	
1,1-Dichloroethene	Not detected	50		ug/kg	50	75-35-4	
Methylene chloride	Not detected	100		ug/kg	50	75-09-2	
trans-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-60-5	
1,1-Dichloroethane	Not detected	50		ug/kg	50	75-34-3	
cis-1,2-Dichloroethene	Not detected	50		ug/kg	50	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	50	109-99-9	
Chloroform	Not detected	50		ug/kg	50	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	50	74-97-5	
1,1,1-Trichloroethane	Not detected	50		ug/kg	50	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	50	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	50	591-78-6	
Carbon tetrachloride	Not detected	50		ug/kg	50	56-23-5	
Benzene	Not detected	50		ug/kg	50	71-43-2	
1,2-Dichloroethane	Not detected	50		ug/kg	50	107-06-2	
Trichloroethene	Not detected	50		ug/kg	50	79-01-6	
1,2-Dichloropropane	Not detected	50		ug/kg	50	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	50	75-27-4	
Dibromomethane	Not detected	300		ug/kg	50	74-95-3	
cis-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-01-5	
Toluene	Not detected	50		ug/kg	50	108-88-3	
trans-1,3-Dichloropropene	Not detected	50		ug/kg	50	10061-02-6	
1,1,2-Trichloroethane	Not detected	50		ug/kg	50	79-00-5	
Tetrachloroethene	Not detected	50		ug/kg	50	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	50		ug/kg	50	110-57-6	

Lab Sample ID: S31025.16 (continued)
Sample Tag: Trip Blank-04

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 02:28, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	100		ug/kg	50	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	50	106-93-4	M
Chlorobenzene	Not detected	50		ug/kg	50	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	50	630-20-6	
Ethylbenzene	Not detected	50		ug/kg	50	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	50		
o-Xylene	Not detected	50		ug/kg	50	95-47-6	
Styrene	Not detected	50		ug/kg	50	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	50	98-82-8	
Bromoform	Not detected	100		ug/kg	50	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	50		ug/kg	50	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	50	96-18-4	
n-Propylbenzene	Not detected	50		ug/kg	50	103-65-1	
Bromobenzene	Not detected	100		ug/kg	50	108-86-1	
1,3,5-Trimethylbenzene	Not detected	50		ug/kg	50	108-67-8	
tert-Butylbenzene	Not detected	50		ug/kg	50	98-06-6	
1,2,4-Trimethylbenzene	Not detected	50		ug/kg	50	95-63-6	
sec-Butylbenzene	Not detected	50		ug/kg	50	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	50	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	50	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	50	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	50	95-50-1	
1,2,3-Trimethylbenzene	Not detected	50		ug/kg	50	526-73-8	
n-Butylbenzene	Not detected	50		ug/kg	50	104-51-8	
Hexachloroethane	Not detected	300		ug/kg	50	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	50	96-12-8	
1,2,4-Trichlorobenzene	Not detected	330		ug/kg	50	120-82-1	
1,2,3-Trichlorobenzene	Not detected	330		ug/kg	50	87-61-6	
Naphthalene	Not detected	300		ug/kg	50	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	50	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S31025.17
Sample Tag: JS-SB-30_SO-120721 (4.5-5.5)
Collected Date/Time: 12/07/2021 14:20
Matrix: Soil
COC Reference: 137912

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.9	IR
1	40ml Glass	MeOH	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample wt. (g) / Methanol (ml)*	17.684/17	SW5035A	12/08/21 12:50	NDK	

Inorganics

Method: SM2540B, Run Date: 12/10/21 17:00, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	80	1		%	1		

Organics - Volatiles

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 07:22, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	72.6	60-29-7	
Acetone	Not detected	1,000		ug/kg	72.6	67-64-1	
Methyl iodide	Not detected	100		ug/kg	72.6	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	72.6	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	72.6	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	72.6	107-13-1	
2-Butanone (MEK)	Not detected	1,100		ug/kg	72.6	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	72.6	75-71-8	
Chloromethane	Not detected	400		ug/kg	72.6	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	72.6	75-01-4	
Bromomethane	Not detected	300		ug/kg	72.6	74-83-9	
Chloroethane	Not detected	400		ug/kg	72.6	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	72.6	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	72.6	75-35-4	
Methylene chloride	Not detected	100		ug/kg	72.6	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	72.6	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	72.6	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	72.6	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	72.6	109-99-9	
Chloroform	Not detected	70		ug/kg	72.6	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	72.6	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	72.6	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	72.6	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	72.6	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	72.6	56-23-5	
Benzene	Not detected	70		ug/kg	72.6	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	72.6	107-06-2	
Trichloroethene	Not detected	70		ug/kg	72.6	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	72.6	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	72.6	75-27-4	
Dibromomethane	Not detected	400		ug/kg	72.6	74-95-3	

Lab Sample ID: S31025.17 (continued)
Sample Tag: JS-SB-30_SO-120721 (4.5-5.5)

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 12/09/21 07:22, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,3-Dichloropropene	Not detected	70		ug/kg	72.6	10061-01-5	
Toluene	Not detected	70		ug/kg	72.6	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	72.6	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	72.6	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	72.6	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	72.6	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	72.6	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	72.6	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	72.6	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	72.6	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	72.6	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	72.6		
o-Xylene	Not detected	70		ug/kg	72.6	95-47-6	
Styrene	Not detected	70		ug/kg	72.6	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	72.6	98-82-8	
Bromoform	Not detected	100		ug/kg	72.6	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	72.6	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	72.6	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	72.6	103-65-1	
Bromobenzene	Not detected	100		ug/kg	72.6	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	72.6	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	72.6	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	72.6	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	72.6	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	72.6	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	72.6	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	72.6	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	72.6	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	72.6	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	72.6	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	72.6	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	72.6	96-12-8	
1,2,4-Trichlorobenzene	Not detected	480		ug/kg	72.6	120-82-1	
1,2,3-Trichlorobenzene	Not detected	480		ug/kg	72.6	87-61-6	
Naphthalene	Not detected	400		ug/kg	72.6	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	72.6	91-57-6	

M-Result reported to MDL not RDL

Merit Laboratories Login Checklist

Lab Set ID:S31025
Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)
Project: 30075936.00005
Submitted:12/07/2021 16:00 Login User: JRM

Attention: Ian Drost
Address: Arcadis US, Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2240 FAX:
Email: Ian.Drost@arcadis.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.9
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[ ] Yes	[ ] No	[X] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

137911

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Ian Drost
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: (734)985-9163, (248)994-2284 FAX NO.:
P.O. NO.:
E-MAIL ADDRESS: lexis.crisp@arcadis.com, ian.drost@arcadis.com
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936.00005
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Joshua Dunn

TURNAROUND TIME REQUIRED ☐ 1 DAY ☒ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs (8260)	Weight Dry	Special Instructions
31025.01	12/6/21	10:10	JS-SB-16_SO-120621(14-15)	S	2	1						1	X	X	CH4O Preservative
.02	12/6/21	10:30	JS-SB-16_SO-120621(16-17)	S	2	1						1	X	X	CH4O Preservative
.03	12/6/21	12:10	JS-SB-17_SO-120621(10-11)	S	2	1						1	X	X	CH4O Preservative
.04	12/6/21	12:15	JS-SB-17_SO-120621(14-15)	S	2	1						1	X	X	CH4O Preservative
.05	12/6/21	15:20	JS-SB-18-SO_120621(15-16)	S	2	1						1	X	X	CH4O Preservative
.06	12/6/21	16:15	JS-SB-18-SO_120621(17-18)	S	2	1						1	X	X	CH4O Preservative
.07	12/6/21	16:10	JS-SB-27-SO_120621(13.5-14.5)	S	2	1						1	X	X	CH4O Preservative
.08/.09/.10	12/7/21	11:05	JS-SB-29-SO_120721(7-8)	S	6	3						3	X	X	CH4O Preservative, MS/MSD
.11	12/7/21	-	DUP-03_SO-120721	S	2	1						1	X	X	CH4O Preservative
.12	12/7/21	-	DUP-04_SO-120721	S	2	1						1	X	X	CH4O Preservative
.13	12/7/21	10:55	JS-SB-29_SO-120721(9-10)	S	2	1						1	X	X	CH4O Preservative
.14	12/7/21	11:40	JS-SB-29_SO-120721(16-17)	S	2	1						1	X	X	CH4O Preservative

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Joshua Dunn / Arcadis ☒Sampler	DATE 12/7/21	TIME 14:30
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 12/9/21	TIME 14:10
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/13/21	TIME 16:00
RECEIVED BY: SIGNATURE/ORGANIZATION	Johanna Mummey	DATE 12/17/21	TIME 1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 2

137912

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Lexi Crisp, Ian Drost
COMPANY: Arcadis
ADDRESS: 28550 Cabot Dr. Suite 500
CITY: Novi STATE: MI ZIP CODE: 48377
PHONE NO.: (614) 985-9163, (248)994-2284 FAX NO.:
E-MAIL ADDRESS: alexis.crisp@arcadis.com, ian.drost@arcadis.com
P.O. NO.:
QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 30075936.00005
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Joshua Dunn

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs (8260)	Dry Weight	Special Instructions
31025.15	12/7/21		Trip Blank-03		1							1	X		CH4O Preservative
.16	12/7/21		Trip Blank-04		1							1	X		CH4O Preservative
.17	12/7/21	14:20	IS-SB-30_SO-120721(4.5-5.5)	S	2	1						1	X	X	CH4O Preservative

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Joshua Dunn / Arcadis ☒ Sampler	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		12/7/21	14:30
RELINQUISHED BY: SIGNATURE/ORGANIZATION		12/7/21	16:01
RECEIVED BY: SIGNATURE/ORGANIZATION	Johanna Mumm	12/7/21	1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Appendix C

Groundwater Sampling Logs

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-01			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.07	**Total Depth (ft-bmp)**	10.5	**Water Column(ft)**	1.43	**Gallons in Well**	0.23
MP Elevation		**Pump Intake (ft-bmp)**	9.5	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	08:40	**Volumes Purged**		**Sample ID**	JS-SB-01_GW-051121	**Sampled by**	Seth Turner
Purge Start	08:04	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab

Purge End

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
08:05	0	0	100	9.07	--	10.94	1.46	582	5.25	9	268	--	--
08:10	5	5	100	9.07	--	10.92	1.35	128	8.29	8.7	251.3	--	--
08:15	5	10	100	9.07	--	10.8	1.39	34.6	10.3	8.3	270.1	--	--
08:20	5	15	100	9.07	--	10.54	1.35	0.02	11.24	7.4	291.1	--	--
08:25	5	20	100	9.07	--	10.48	1.4	0.02	11.16	7.1	298.6	--	--
08:30	5	25	100	9.07	--	10.41	1.38	0.02	11.36	6.8	303.3	--	--
08:35	5	30	100	9.07	--	10.4	1.37	0.02	11.38	6.8	303.7	--	--
08:40	5	35	100	9.07	--	10.4	1.39	0.02	11.36	6.8	304.1	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:	Pontiac	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-02			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.72	**Total Depth (ft-bmp)**	15.15	**Water Column(ft)**	3.43	**Gallons in Well**	0.56
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	09:30	**Volumes Purged**		**Sample ID**	JS-SB-02_GW-051121	**Sampled by**	Seth Turner
Purge Start	08:55	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab

Purge End

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
08:55	0	0	100	11.72	--	7.71	0.78	147	4.5	9.6	327.3	--	--
09:00	5	5	100	11.72	--	7.25	0.78	0.02	5.53	9.7	344	--	--
09:05	5	10	100	11.72	--	7.19	0.77	0.02	6.59	9.9	345.6	--	--
09:10	5	15	100	11.72	--	7.27	0.76	0.02	8.67	10.2	343.4	--	--
09:15	5	20	100	11.72	--	7.27	0.76	0.02	8.75	10.2	346.6	--	--
09:20	5	25	100	11.72	--	7.27	0.77	0.02	8.76	10.2	346.8	--	--
09:25	5	30	100	11.72	--	7.27	0.79	0.02	8.74	10.2	346.7	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Pontiac

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-03			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.33	**Total Depth (ft-bmp)**	15.29	**Water Column(ft)**	4.96	**Gallons in Well**	0.81
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	10:30	**Volumes Purged**		**Sample ID**	JS-SB-03_GW-051121	**Sampled by**	Seth Turner
Purge Start	09:55	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab

Purge End

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:55	0	0	100	10.33	--	7.54	0.693	52.3	5.29	9.5	339.9	--	--
10:00	5	5	100	10.33	--	7.32	0.72	0.02	4.35	10	352.6	--	--
10:05	5	10	100	10.33	--	7.31	0.74	0.02	4.16	10.2	355.3	--	--
10:10	5	15	100	10.33	--	7.32	0.76	0.02	4.06	9.8	356.9	--	--
10:15	5	20	100	10.33	--	7.31	0.76	0.02	3.91	10.2	357.7	--	--
10:20	5	25	100	10.33	--	7.31	0.74	0.02	3.92	10.4	358.6	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:	Pontiac	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-04			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.44	**Total Depth (ft-bmp)**	15.27	**Water Column(ft)**	5.83	**Gallons in Well**	0.95
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	11:55	**Volumes Purged**		**Sample ID**	JS-SB-04_GW-051121	**Sampled by**	Seth Turner
Purge Start	11:20	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab
Purge End	12:00						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:20	0	0	100	9.44	--	7.25	2.66	0.02	4.21	10.1	386.4	--	--
11:25	5	5	100	9.44	--	7.24	2.65	0.02	4.03	10	386.5	--	--
11:30	5	10	100	9.44	--	7.22	2.64	0.02	4.01	10.1	386.7	--	--
11:35	5	15	100	9.44	--	7.21	2.57	0.02	4.31	10.6	384.2	--	--
11:40	5	20	100	9.44	--	7.26	2.46	0.02	4.66	10.8	378.5	--	--
11:45	5	25	100	9.44	--	7.33	2.29	0.02	4.99	10.2	374.4	--	--
11:50	5	30	100	9.44	--	7.32	2.27	0.02	5.07	10.1	372.3	--	--
11:55	5	35	100	9.44	--	7.32	2.27	0.02	5.03	10.1	372.3	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Pontiac

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-05			**Date**	05/12/2021
Project Name/Location	Racer pnc		**Weather(°F)**	43F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.53	**Total Depth (ft-bmp)**	12.19	**Water Column(ft)**	5.66	**Gallons in Well**	0.92
MP Elevation		**Pump Intake (ft-bmp)**	11	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	10:55	**Volumes Purged**		**Sample ID**	JS-SB-05_GW-051221	**Sampled by**	Seth Turner
Purge Start	10:20	**Gallons Purged**		**Replicate/ Code No.**	DUP-04_GW-051221	**Sample Type**	Grab
Purge End	11:20						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:20	0	0	100	6.53	--	7.01	1.12	36.8	0.91	11	-18.8	--	--
10:25	5	5	100	6.53	--	7.02	1.12	10.3	0.64	10.9	-28.8	--	--
10:30	5	10	100	6.53	--	7.02	1.12	0.02	0.69	10.9	-34.9	--	--
10:35	5	15	100	6.53	--	7.01	-37.7	0.02	0.45	10.9	-39.7	--	--
10:40	5	20	100	6.53	--	7.01	1.12	0.02	0.51	10.9	-43.7	--	--
10:45	5	25	100	6.53	--	7.01	1.11	0.02	0.52	10.9	-43.9	--	--
10:50	5	30	100	6.53	--	7.01	1.12	0.02	0.5	10.9	-44.2	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	12	HCL
PAHs SW-846 8100	1L Amber	4	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:	Pontiac	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-06			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.74	**Total Depth (ft-bmp)**	14.98	**Water Column(ft)**	2.24	**Gallons in Well**	0.36
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	13:00	**Volumes Purged**		**Sample ID**	JS-SB-06_GW-051121	**Sampled by**	Seth Turner
Purge Start	12:15	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab

Purge End

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:15	0	0	100	12.74	--	7.29	1.06	113.6	0.71	11.3	157.3	--	--
12:20	5	5	100	14.50	--	7.22	1.02	28.7	0.27	11.1	109.1	--	--
12:25	5	10	100	14.78	--	7.14	1	10.6	0.15	11	-25.9	Clear	Mild

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Pontiac

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-07			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.69	**Total Depth (ft-bmp)**	17.23	**Water Column(ft)**	7.54	**Gallons in Well**	1.23
MP Elevation		**Pump Intake (ft-bmp)**	16	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	13:45	**Volumes Purged**		**Sample ID**	JS-SB-07_GW-051121	**Sampled by**	Seth Turner
Purge Start	13:10	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab
Purge End	13:50						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:10	0	0	100	9.69	--	7.15	0.83	10.3	2.3	9.9	260.9	--	--
13:15	5	5	100	9.69	--	7.14	0.82	0.02	2.07	10.9	260.4	--	--
13:20	5	10	100	9.69	--	7.11	1.64	0.02	1.65	10.4	246.6	--	--
13:25	5	15	100	9.69	--	7.1	0.82	0.02	1.39	10.2	228.5	--	--
13:30	5	20	100	9.69	--	7.1	0.83	0.02	1.4	10.1	229.1	--	--
13:35	5	25	100	9.69	--	7.1	0.84	0.02	1.5	10.1	229.6	--	--
13:40	5	30	100	9.69	--	7.1	0.84	0.02	1.5	10.1	229.6	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Pontiac

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-08			**Date**	05/11/2021
Project Name/Location	Racer pnc		**Weather(°F)**	37F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.60	**Total Depth (ft-bmp)**	15.32	**Water Column(ft)**	5.72	**Gallons in Well**	0.93
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	14:40	**Volumes Purged**		**Sample ID**	JS-SB-08_GW-051121	**Sampled by**	Seth Turner
Purge Start	14:05	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab
Purge End	14:55						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:05	0	0	100	9.60	--	7.49	0.86	5.62	8.51	9.8	300.7	--	--
14:10	5	5	100	9.60	--	7.44	0.85	0.02	7.93	9.8	303.4	--	--
14:15	5	10	100	9.60	--	7.41	0.84	0.02	7.61	9.7	305.5	--	--
14:20	5	15	100	9.60	--	7.39	0.83	0.02	7.38	9.8	307.1	--	--
14:25	5	20	100	9.60	--	7.37	0.82	0.02	7.27	9.8	308.5	--	--
14:30	5	25	100	9.60	--	7.36	0.81	0.02	7.27	9.7	309.9	--	--
14:35	5	30	100	9.60	--	7.35	0.81	0.02	7.41	9.7	311.8	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Pontiac

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

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Project Number	30075936	**Well ID**	JS-SB-09			**Date**	05/12/2021
Project Name/Location	Racer pnc		**Weather(°F)**	43F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.83	**Total Depth (ft-bmp)**	15.12	**Water Column(ft)**	3.29	**Gallons in Well**	0.53
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	09:00	**Volumes Purged**		**Sample ID**	JS-SB-09_GW-051221	**Sampled by**	Seth Turner
Purge Start	08:25	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab
Purge End	09:10						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
08:25	0	0	100	11.83	--	7.07	1.04	13.6	1.95	9.8	255.8	--	--
08:30	5	5	100	11.83	--	7.04	1.04	0.02	1.92	9.7	247.4	--	--
08:35	5	10	100	11.83	--	7.03	1.04	0.02	1.89	9.8	240.8	--	--
08:40	5	15	100	11.83	--	6.96	1.05	0.02	1.51	9.8	163.9	--	--
08:45	5	20	100	11.83	--	6.96	1.05	0.02	1.5	9.8	164	--	--
08:50	5	25	100	11.83	--	6.96	1.05	0.02	1.51	9.8	164.1	--	--
08:55	5	30	100	11.83	--	6.96	1.05	0.02	1.5	9.8	163.9	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:	Pontiac	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-SB-10			**Date**	05/12/2021
Project Name/Location	Racer pnc		**Weather(°F)**	43F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.24	**Total Depth (ft-bmp)**	17.51	**Water Column(ft)**	5.27	**Gallons in Well**	0.86
MP Elevation		**Pump Intake (ft-bmp)**	16	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	09:50	**Volumes Purged**		**Sample ID**	JS-SB-10_GW-051221	**Sampled by**	Seth Turner
Purge Start	09:15	**Gallons Purged**		**Replicate/ Code No.**	DUP-03_GW-051221	**Sample Type**	Grab

Purge End

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:15	0	0	100	12.24	--	7.05	2.24	600	1.61	10.9	137.9	--	--
09:20	5	5	100	12.24	--	7.05	2.23	454	1.21	10.9	119.6	--	--
09:25	5	10	100	12.24	--	7.05	2.23	223	1.06	10.9	102.1	--	--
09:30	5	15	100	12.24	--	7.04	2.23	56.9	0.93	10.9	89	--	--
09:35	5	20	100	12.24	--	7.03	2.22	5.61	0.82	10.9	75.6	--	--
09:40	5	25	100	12.24	--	7.03	2.22	0.02	0.67	10.9	45.3	--	--
09:45	5	30	100	12.24	--	7.03	2.21	0.02	0.68	10.9	44.9	--	--
09:50	5	35	100	12.24	--	7.03	2.23	0.02	0.67	10.9	43.6	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	6	HCL
PAHs SW-846 8100	1L Amber	2	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:	Pontiac	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30075936	**Well ID**	JS-SB-11			**Date**	05/12/2021
Project Name/Location	Racer pnc		**Weather(°F)**	43F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	--	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.37	**Total Depth (ft-bmp)**	15.35	**Water Column(ft)**	2.98	**Gallons in Well**	0.48
MP Elevation		**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Sample Time	12:10	**Volumes Purged**		**Sample ID**	JS-SB-11_GW-051221	**Sampled by**	Seth Turner
Purge Start	11:45	**Gallons Purged**		**Replicate/ Code No.**		**Sample Type**	Grab
Purge End	12:20						

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:46	0	0	100	12.37	--	7.32	0.75	12.6	9.19	11.9	162.7	--	--
11:50	4	4	100	14.98	--	7.4	0.74	0.02	8.73	10.4	163.8	--	--
11:55	5	9	100	15.35	--	7.4	0.74	0.02	8.73	10.4	163.8	Clear	None

Constituent Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
PAHs SW-846 8100	1L Amber	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: Pontiac

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: 2035

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-03			**Date**	12/28/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	32.0 degrees F and Cloudy. The wind is blowing S at 4.7 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.60	**Total Depth (ft-bmp)**	13.83	**Water Column (ft)**	8.23	**Gallons in Well**	1.34
Purge Start	12:37	**Pump Intake (ft-bmp)**	11.04	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	13:29	**Volumes Purged**	1.12	**Sample ID**	JS-MW-03_GW-122821	**Sampled by**	Gary Schafer
Sample Time	13:14	**Gallons Purged**	1.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:40	0	0	250	5.60	--	7.07	0.98	1.42	3.1	10.8	338.8	--	--
12:45	5	5	250	7.40	--	7.09	0.97	1.16	3.04	10.8	335.8	--	--
12:50	5	10	250	8.20	--	7.1	0.97	1.26	3.16	10.4	332.4	--	--
12:55	5	15	250	8.67	--	7.11	0.97	1.11	3.03	10.5	330.6	--	--
13:00	5	20	250	9.16	--	7.12	0.97	1.28	2.95	10.6	328.7	--	--
13:05	5	25	250	9.46	--	7.12	0.97	0.99	3.06	9.4	326.9	--	--
13:10	5	30	250	9.94	--	7.14	0.97	1.82	2.8	10.9	324.4	--	--
13:15	5	35	250	10.42	--	7.14	0.97	1.71	2.71	11	323.6	--	--
13:20	5	40	250	11.04	--	7.13	0.96	1.67	2.62	11	322.4	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-04			**Date**	12/28/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	32.0 degrees F and Cloudy. The wind is blowing S/SE at 6.9 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.20	**Total Depth (ft-bmp)**	13.66	**Water Column (ft)**	8.46	**Gallons in Well**	1.37
Purge Start	14:23	**Pump Intake (ft-bmp)**	12.94	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	15:37	**Volumes Purged**	1.46	**Sample ID**	JS-MW-04	**Sampled by**	Gary Schafer
Sample Time	15:26	**Gallons Purged**	2.00	**Replicate/ Code No.**	DUP-01_GW-122821	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:25	0	0	250	5.94	--	7.31	1.93	1.69	3.34	11.1	300.9	--	--
14:30	5	5	250	7.04	--	7.28	1.93	0.86	2.48	11	281.1	--	--
14:35	5	10	250	8.10	--	7.28	1.93	0.85	2.26	11.1	264.3	--	--
14:40	5	15	250	8.84	--	7.29	1.93	1.01	2.24	11.1	246.7	--	--
14:45	5	20	250	8.86	--	7.3	1.93	0.79	2.25	11	227.4	--	--
14:50	5	25	250	9.50	--	7.3	1.93	0.74	1.94	11	211.2	--	--
14:55	5	30	250	9.88	--	7.31	1.93	1.33	1.91	11	205.7	--	--
15:00	5	35	250	10.40	--	7.31	1.92	2.14	1.39	11.2	197.6	--	--
15:05	5	40	250	11.18	--	7.3	1.94	1.31	1.02	11.2	187.2	--	--
15:10	5	45	250	11.78	--	7.29	1.97	1.01	0.88	11.2	181	--	--
15:15	5	50	250	12.09	--	7.29	1.97	0.86	0.78	11.1	176.1	--	--
15:20	5	55	250	12.11	--	7.29	1.93	0.66	0.86	10.8	168.6	--	--
15:25	5	60	250	12.94	--	7.29	1.93	0.58	0.9	11.2	164	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-05			**Date**	12/28/2021
Project Name/Location	RACER Pontiac North Campus 2021		**Weather(°F)**	Snowing temp 34			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	2.67	**Total Depth (ft-bmp)**	9.98	**Water Column (ft)**	7.31	**Gallons in Well**	1.19
Purge Start	15:57	**Pump Intake (ft-bmp)**	2.7	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	17:07	**Volumes Purged**		**Sample ID**	JS-MW-05_GW-122821	**Sampled by**	Gary Schafer
Sample Time	16:56	**Gallons Purged**		**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
16:00	0	0	250	2.70	--	7.14	1.01	40	0.85	9.2	53.1	--	--
16:05	5	5	250	2.70	--	7.13	1	11.1	0.17	8.7	4.9	--	--
16:10	5	10	250	2.70	--	7.13	1	9.21	0.11	8.7	2.2	--	--
16:15	5	15	250	2.70	--	7.13	1	8.61	0.14	8.6	-2.5	--	--
16:20	5	20	250	2.70	--	7.14	1	7.42	0.11	8.5	-11.7	--	--
16:25	5	25	250	2.70	--	7.15	0.99	6.71	0.2	8.5	-20	--	--
16:30	5	30	250	2.70	--	7.14	0.99	5.61	0.14	8.5	-29	--	--
16:35	5	35	250	2.70	--	7.14	0.99	8.6	0.1	8.5	-48	--	--
16:40	5	40	250	2.70	--	7.14	0.98	8.4	0.09	8.5	-55.2	--	--
16:45	5	45	250	2.70	--	7.14	0.98	5.97	0.12	8.5	-55.9	--	--
16:50	5	50	250	2.70	--	7.14	0.98	5.27	0.11	8.5	-54.2	--	--
16:55	5	55	250	2.70	--	7.14	0.98	5.01	0.11	8.5	-57.3	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-06			**Date**	12/29/2021
Project Name/Location	RACER Pontiac North Campus 2021		**Weather(°F)**	33.1 degrees F and Light Drizzle and Fog/Mist. The wind is blowing SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.55	**Total Depth (ft-bmp)**	13.92	**Water Column (ft)**	7.37	**Gallons in Well**	1.2
Purge Start	10:17	**Pump Intake (ft-bmp)**	9.08	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	11:27	**Volumes Purged**	1.67	**Sample ID**	JS-MW-06_GW-122921	**Sampled by**	Gary Schafer
Sample Time	11:21	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:20	0	0	250	6.95	--	6.9	1.14	15.7	1.55	11.2	258.6	--	--
10:25	5	5	250	7.40	--	7.19	1.11	8.11	0.81	11.1	217	--	--
10:30	5	10	250	7.66	--	7.22	1.1	5.75	0.61	11	104.3	--	--
10:35	5	15	250	7.91	--	7.22	1.08	4.48	0.5	11.2	40	--	--
10:40	5	20	250	8.04	--	7.23	1.08	3.6	0.48	11.2	15.3	--	--
10:45	5	25	250	8.24	--	7.24	1.07	2.89	0.43	11.2	-2.6	--	--
10:50	5	30	250	8.40	--	7.24	1.07	2.25	0.4	11.3	-19.3	--	--
10:55	5	35	250	8.57	--	7.23	1.07	2.07	0.34	11.5	-32.9	--	--
11:00	5	40	250	8.73	--	7.21	1.05	2.18	0.28	11.6	-49.8	--	--
11:05	5	45	250	8.88	--	7.2	1.05	2.44	0.24	11.6	-57.7	--	--
11:10	5	50	250	8.98	--	7.21	1.05	2.26	0.24	11.5	-61.6	--	--
11:15	5	55	250	9.05	--	7.2	1.05	2.62	0.2	11.5	-66.7	--	--
11:20	5	60	250	9.08	--	7.2	1.05	2.41	0.23	11.5	-66	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-MW-07			**Date**	12/29/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	34.0 degrees F and Fog/Mist. The wind is blowing S/SW at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	3.29	**Total Depth (ft-bmp)**	14.63	**Water Column (ft)**	11.34	**Gallons in Well**	1.84
Purge Start	11:43	**Pump Intake (ft-bmp)**	3.78	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	12:28	**Volumes Purged**	0.82	**Sample ID**	JS-MW-07_GW-122921	**Sampled by**	Gary Schafer
Sample Time	12:21	**Gallons Purged**	1.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:45	0	0	250	3.49	--	7.12	0.79	16.2	3.77	10.9	8.5	--	--
11:50	5	5	250	3.57	--	7.11	0.78	8.24	3.43	10.3	6.2	--	--
11:55	5	10	250	3.61	--	7.12	0.78	4.78	3.38	10.3	8.6	--	--
12:00	5	15	250	3.66	--	7.13	0.78	5.77	3.34	10.4	13	--	--
12:05	5	20	250	3.72	--	7.14	0.78	5.06	3.4	10.4	18	--	--
12:10	5	25	250	3.75	--	7.13	0.77	3.2	3.26	10.5	25.3	--	--
12:15	5	30	250	3.78	--	7.13	0.77	3.16	3.28	10.5	26.8	--	--
12:20	5	35	250	3.78	--	7.13	0.77	2.37	3.32	10.5	29	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-09			**Date**	12/29/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	34.0 degrees F and Fog/Mist. The wind is blowing SW at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.34	**Total Depth (ft-bmp)**	13.01	**Water Column (ft)**	6.67	**Gallons in Well**	1.08
Purge Start	13:03	**Pump Intake (ft-bmp)**		**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	14:01	**Volumes Purged**	1.85	**Sample ID**	JS-MW-09_GW-122921	**Sampled by**	Gary Schafer
Sample Time	13:51	**Gallons Purged**	2.00	**Replicate/ Code No.**	DUP-02_GW-122921	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:05	0	0	250	7.00	--	7.02	1.03	6.61	0.81	11.3	-68.1	--	--
13:10	5	5	250	7.72	--	7.01	1.03	4.77	0.38	11.1	-79	--	--
13:15	5	10	250	8.19	--	7.02	1.03	4.76	0.3	11.1	-86.2	--	--
13:20	5	15	250	8.45	--	7.02	1.03	6.83	0.31	10.9	-88.8	--	--
13:25	5	20	250	8.83	--	7.02	1.03	7.89	0.28	11	-90.7	--	--
13:30	5	25	250	9.34	--	7.02	1.03	8.7	0.32	11	-90	--	--
13:35	5	30	250	9.70	--	7.02	1.03	11.2	0.31	11.1	-91.3	--	--
13:40	5	35	250	10.08	--	7.01	1.03	11.9	0.33	11.1	-90.2	--	--
13:45	5	40	250	10.72	--	7.01	1.04	32	0.34	11.1	-92.4	--	--
13:50	5	45	250	10.97	--	7.01	1.04	30.6	0.33	11.1	-93.5	Clear	Mild

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-10			**Date**	12/29/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	36.0 degrees F and Cloudy.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.50	**Total Depth (ft-bmp)**	15.78	**Water Column (ft)**	8.28	**Gallons in Well**	1.35
Purge Start	14:33	**Pump Intake (ft-bmp)**		**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	15:38	**Volumes Purged**	1.48	**Sample ID**	JW-MW-10_GW-122921	**Sampled by**	Gary Schafer
Sample Time	15:31	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:35	0	0	250	8.02	--	6.98	2.77	18.2	0.5	11.3	-66.5	--	--
14:40	5	5	250	8.44	--	7.05	2.57	9	0.33	11.8	-65.1	--	--
14:45	5	10	250	8.68	--	7.09	2.15	9.08	0.32	11.7	-57.8	--	--
14:50	5	15	250	8.88	--	7.08	1.99	12.4	0.3	11.6	-54.7	--	--
14:55	5	20	250	9.10	--	7.07	2	11.7	0.26	11.6	-55.5	--	--
15:00	5	25	250	9.20	--	7.07	2.01	10.2	0.27	11.7	-58.6	--	--
15:05	5	30	250	9.31	--	7.07	2.04	9.42	0.2	11.7	-64.2	--	--
15:10	5	35	250	9.45	--	7.07	2.07	9.1	0.2	11.8	-75.2	--	--
15:15	5	40	250	9.50	--	7.07	2.08	7.02	0.22	11.7	-78.9	--	--
15:20	5	45	250	9.58	--	7.07	2.08	5.49	0.21	11.7	-82.4	--	--
15:25	5	50	250	9.64	--	7.07	2.09	4.63	0.21	11.7	-83.9	--	--
15:30	5	55	250	9.68	--	7.07	2.11	3.87	0.22	11.7	-82.4	Clear	Mild

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-11			**Date**	12/30/2021
Project Name/Location	RACER Pontiac North Campus 2021		**Weather(°F)**	Overcast temp 30			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.14	**Total Depth (ft-bmp)**	13.8	**Water Column (ft)**	8.66	**Gallons in Well**	1.41
Purge Start	08:53	**Pump Intake (ft-bmp)**		**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	09:59	**Volumes Purged**	1.42	**Sample ID**	JS-MW-11_GW-123021	**Sampled by**	Gary Schafer
Sample Time	09:51	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
08:55	0	0	250	6.33	--	7.1	0.91	4.72	3.19	10.8	200.5	--	--
09:00	5	5	250	6.56	--	7.11	0.91	5.26	3.05	10.8	196	--	--
09:05	5	10	250	7.08	--	7.13	0.9	5.14	2.98	10.8	184.6	--	--
09:10	5	15	250	7.16	--	7.13	0.9	2.88	2.98	10.6	174.1	--	--
09:15	5	20	250	7.17	--	7.15	0.9	3.23	2.93	10.5	166.8	--	--
09:20	5	25	250	7.80	--	7.16	0.9	2.85	2.86	10.5	149.3	--	--
09:25	5	30	250	7.94	--	7.16	0.9	2.86	2.89	10.5	147.3	--	--
09:30	5	35	250	8.28	--	7.15	0.9	3.65	2.88	10.8	133	--	--
09:35	5	40	250	8.43	--	7.16	0.9	7.45	2.85	10.8	127.2	--	--
09:40	5	45	250	8.58	--	7.16	0.9	8.09	2.84	10.8	124.7	--	--
09:45	5	50	250	8.76	--	7.16	0.9	8.69	2.77	10.9	122.2	--	--
09:50	5	55	250	9.10	--	7.16	0.9	8	2.84	10.9	122	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-MW-16			**Date**	12/30/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	32.0 degrees F and Cloudy. The wind is blowing E at 3.4 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.17	**Total Depth (ft-bmp)**	15.83	**Water Column (ft)**	9.66	**Gallons in Well**	1.57
Purge Start	13:37	**Pump Intake (ft-bmp)**	8.2	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	14:58	**Volumes Purged**	1.27	**Sample ID**	JS-MW-16_GW-123021	**Sampled by**	Gary Schafer
Sample Time	14:41	**Gallons Purged**	2.00	**Replicate/ Code No.**	JS-MW-16-MS_GW-123021, JS-MW-16-MSD_GW-123021	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:40	0	0	250	6.47	--	7.07	0.78	100	0.57	11.4	-35.6	--	--
13:45	5	5	250	6.80	--	7.07	0.78	195	0.2	11.4	-39.6	--	--
13:50	5	10	250	7.20	--	7.07	0.78	167	0.16	11.5	-42.4	--	--
13:55	5	15	250	7.40	--	7.07	0.79	106	0.15	11.4	-44	--	--
14:00	5	20	250	7.61	--	7.08	0.79	60.3	0.14	11.4	-48.6	--	--
14:05	5	25	250	7.73	--	7.08	0.79	42.1	0.14	11.4	-49.1	--	--
14:10	5	30	250	7.80	--	7.08	0.79	42	0.11	11.4	-48.9	--	--
14:15	5	35	250	7.87	--	7.08	0.79	37.6	0.12	11.3	-49	--	--
14:20	5	40	250	7.95	--	7.08	0.79	29.9	0.12	11.4	-50.8	--	--
14:25	5	45	250	8.02	--	7.08	0.79	26.2	0.13	11.4	-51.5	--	--
14:30	5	50	250	8.08	--	7.08	0.79	21.5	0.16	11.3	-51.7	--	--
14:35	5	55	250	8.14	--	7.08	0.79	18.6	0.14	11.4	-53.7	--	--
14:40	5	60	250	8.20	--	7.08	0.79	17.6	0.12	11.4	-55.2	Clear	Mild

Constituent Sampled	Container	Number	Preservative

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-19			**Date**	12/30/2021
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	30.0 degrees F and Cloudy. The wind is blowing E at 5.8 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.04	**Total Depth (ft-bmp)**	16.66	**Water Column (ft)**	10.62	**Gallons in Well**	1.73
Purge Start	12:33	**Pump Intake (ft-bmp)**	6.3	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	13:21	**Volumes Purged**	1.16	**Sample ID**	JS-MW-19_GW-123021	**Sampled by**	Gary Schafer
Sample Time	13:16	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:35	0	0	250	6.23	--	7.07	0.91	39.7	1.04	11.5	157	--	--
12:40	5	5	250	6.23	--	7.08	0.91	33.5	0.83	11.6	106	--	--
12:45	5	10	250	6.27	--	7.08	0.89	21.1	0.57	11.7	29.4	--	--
12:50	5	15	250	6.29	--	7.09	0.88	12	0.36	11.7	-22.3	--	--
12:55	5	20	250	6.30	--	7.09	0.88	7.39	0.26	11.7	-35.8	--	--
13:00	5	25	250	6.30	--	7.09	0.88	5.78	0.21	11.7	-49.5	--	--
13:05	5	30	250	6.30	--	7.08	0.87	2.92	0.17	11.6	-58.4	--	--
13:10	5	35	250	6.30	--	7.08	0.87	2.22	0.17	11.6	-64.2	--	--
13:15	5	40	250	6.30	--	7.08	0.87	2.24	0.16	11.6	-66.7	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-20			**Date**	01/04/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	30.0 degrees F and Mostly Cloudy. The wind is blowing S at 11.4 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.25	**Total Depth (ft-bmp)**	17.82	**Water Column (ft)**	11.57	**Gallons in Well**	1.88
Purge Start	14:07	**Pump Intake (ft-bmp)**	11.94	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	15:15	**Volumes Purged**	0.80	**Sample ID**	JW-MW-20_GW-010422	**Sampled by**	Gary Schafer
Sample Time	15:06	**Gallons Purged**	1.50	**Replicate/ Code No.**	DUP-03_GW-010422	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:10	0	0	250	6.90	--	7.15	5.3	3.51	4.53	12	117.5	--	--
14:15	5	5	250	7.90	--	7.17	5.31	2.92	4.36	11.9	84.1	--	--
14:20	5	10	250	8.45	--	7.18	5.31	2.06	4.24	11.8	63.7	--	--
14:25	5	15	250	9.60	--	7.18	5.3	1.66	3.92	11.8	45.6	--	--
14:30	5	20	250	9.60	--	7.18	5.31	1.33	3.93	11.8	40.7	--	--
14:35	5	25	250	9.90	--	7.18	5.3	1.66	3.9	11.6	32.4	--	--
14:40	5	30	250	10.36	--	7.18	5.3	1.57	3.82	11.8	33.7	--	--
14:45	5	35	250	10.90	--	7.18	5.28	1.27	3.7	11.8	33.9	--	--
14:50	5	40	250	11.21	--	7.18	5.3	0.96	3.7	11.3	35.5	--	--
14:55	5	45	250	11.43	--	7.17	5.29	0.83	3.68	12	35.4	--	--
15:00	5	50	250	11.60	--	7.17	5.28	1.23	3.67	12	34.5	--	--
15:05	5	55	250	11.94	--	7.17	5.28	0.97	3.67	12.2	38.9	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-21			**Date**	01/04/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	23.0 degrees F and Mostly Cloudy. The wind is blowing S at 11.4 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.38	**Total Depth (ft-bmp)**	16.85	**Water Column (ft)**	11.47	**Gallons in Well**	1.86
Purge Start	11:03	**Pump Intake (ft-bmp)**	5.52	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	12:03	**Volumes Purged**	1.08	**Sample ID**	JS-MW-21_GW-010422	**Sampled by**	Gary Schafer
Sample Time	11:56	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:05	0	0	250	5.50	--	7.12	4	63.4	0.98	11.5	68	--	--
11:10	5	5	250	5.50	--	7.12	4.01	19	0.68	11.6	54.6	--	--
11:15	5	10	250	5.50	--	7.11	4.02	11	0.6	11.5	38.8	--	--
11:20	5	15	250	5.50	--	7.11	4.02	8.17	0.43	11.5	29.4	--	--
11:25	5	20	250	5.50	--	7.1	4.03	6.12	0.36	11.6	18.4	--	--
11:30	5	25	250	5.52	--	7.1	4.03	4.82	0.33	11.5	15.4	--	--
11:35	5	30	250	5.52	--	7.1	4.03	4.04	0.28	11.7	6.9	--	--
11:40	5	35	250	5.52	--	7.1	4.02	3.33	0.29	11.7	4.7	--	--
11:45	5	40	250	5.52	--	7.1	4.03	2.76	0.27	11.7	0.4	--	--
11:50	5	45	250	5.52	--	7.1	4.01	2.61	0.23	11.7	-3.9	--	--
11:55	5	50	250	5.52	--	7.1	4.01	2.55	0.23	11.6	-6.7	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-22			**Date**	01/04/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	23.0 degrees F and Mostly Cloudy. The wind is blowing S at 11.4 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.95	**Total Depth (ft-bmp)**	17.71	**Water Column (ft)**	12.76	**Gallons in Well**	2.07
Purge Start	09:47	**Pump Intake (ft-bmp)**	5.01	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	10:44	**Volumes Purged**	0.97	**Sample ID**	JS-MW-22_GW-010422	**Sampled by**	Gary Schafer
Sample Time	10:36	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:50	0	0	250	4.98	--	7.08	5.05	83.7	0.49	11.5	88	--	--
09:55	5	5	250	4.98	--	7.13	5.08	31.4	0.23	11.7	30.4	--	--
10:00	5	10	250	5.00	--	7.15	5.06	17	0.24	11.9	12.2	--	--
10:05	5	15	250	5.00	--	7.15	4.95	13.6	0.19	11.6	2.6	--	--
10:10	5	20	250	5.00	--	7.18	4.69	5.58	0.36	11.6	-9	--	--
10:15	5	25	250	5.00	--	7.18	4.65	5.3	0.35	11.6	-10.1	--	--
10:20	5	30	250	5.00	--	7.18	4.56	3.67	0.46	11.6	-13.3	--	--
10:25	5	35	250	5.00	--	7.18	4.53	2.31	0.45	11.6	-16.42	--	--
10:30	5	40	250	5.00	--	7.19	4.48	2.14	0.47	11.6	-18.5	--	--
10:35	5	45	250	5.01	--	7.18	4.48	2.6	0.46	11.7	-21.4	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-MW-23			**Date**	01/05/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	30.9 degrees F and Haze. Winds from west at 35 mph				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.76	**Total Depth (ft-bmp)**	10.3	**Water Column (ft)**	8.54	**Gallons in Well**	1.39
Purge Start	12:43	**Pump Intake (ft-bmp)**	2.4	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	13:35	**Volumes Purged**	1.44	**Sample ID**	JS-MW-23_GW-010522	**Sampled by**	Gary Schafer
Sample Time	13:26	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:45	0	0	250	2.31	--	7.11	0.84	2.28	0.84	8.5	72.1	--	--
12:50	5	5	250	2.36	--	7.14	0.83	1.26	0.58	8.3	53	--	--
12:55	5	10	250	2.40	--	7.15	0.83	1.63	0.6	8.3	48.2	--	--
13:00	5	15	250	2.40	--	7.15	0.82	1.54	0.44	8.3	33.4	--	--
13:05	5	20	250	2.40	--	7.16	0.82	1.34	0.39	8.2	19.8	--	--
13:10	5	25	250	2.40	--	7.15	0.82	1.07	0.33	8.2	13.7	--	--
13:15	5	30	250	2.40	--	7.15	0.82	0.85	0.28	8.2	5.9	--	--
13:20	5	35	250	2.40	--	7.16	0.82	0.58	0.28	8.3	4.31	--	--
13:25	5	40	250	2.40	--	7.15	0.81	0.67	0.27	8.2	-0.8	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Condition of Well: _____

Well Locked at Departure: _____

Well Completion: NA

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-24			**Date**	01/05/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	34.0 degrees F and Light Snow. The wind is blowing SW at 17.2 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.13	**Total Depth (ft-bmp)**	7.23	**Water Column (ft)**	6.1	**Gallons in Well**	0.99
Purge Start	10:47	**Pump Intake (ft-bmp)**	1.8	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	11:57	**Volumes Purged**	2.53	**Sample ID**	JS-MW-24_GW-010522	**Sampled by**	Gary Schafer
Sample Time	11:51	**Gallons Purged**	2.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:50	0	0	250	1.48	--	7.12	1	146	6	6.9	63.3	--	--
10:55	5	5	250	1.60	--	7.14	0.99	19.5	4.94	6.3	31.1	--	--
11:00	5	10	250	1.60	--	7.15	0.99	11.7	4.66	6.3	46.4	--	--
11:05	5	15	250	1.62	--	7.16	0.97	8.55	4.39	6.3	52.2	--	--
11:10	5	20	250	1.63	--	7.15	0.97	7.25	3.95	6.3	53.2	--	--
11:15	4	25	250	1.66	--	7.15	0.96	5.1	3.56	6.3	48.9	--	--
11:20	5	30	250	1.73	--	7.15	0.96	4	3.5	6.3	48.1	--	--
11:25	5	35	250	1.73	--	7.14	0.95	3.57	2.94	6.3	30.6	--	--
11:30	5	40	250	1.78	--	7.14	0.95	2.94	2.9	6.3	27.2	--	--
11:35	5	45	250	1.78	--	7.14	0.95	2.31	2.69	6.3	28.5	--	--
11:40	5	50	250	1.80	--	7.14	0.95	3.2	2.44	6.3	27.9	--	--
11:45	5	55	250	1.80	--	7.14	0.95	2.75	2.37	6.3	31	--	--
11:50	5	60	250	1.80	--	7.14	0.94	2.66	2.36	6.3	32	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-25			**Date**	01/05/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	34.0 degrees F and Light Snow. The wind is blowing S/SW at 12.8 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	2.35	**Total Depth (ft-bmp)**	7.31	**Water Column (ft)**	4.96	**Gallons in Well**	0.81
Purge Start	09:17	**Pump Intake (ft-bmp)**	3.65	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	10:29	**Volumes Purged**	2.47	**Sample ID**	JS-MW-25_GW-010522	**Sampled by**	Gary Schafer
Sample Time	10:21	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:20	0	0	250	2.52	--	7.05	1.25	3.68	7.4	7.1	209.7	--	--
09:25	5	5	250	2.52	--	7.12	1.25	4.53	7.2	6.9	195	--	--
09:30	5	10	250	2.52	--	7.14	1.24	2.5	6.73	6.6	171.3	--	--
09:35	5	15	250	2.52	--	7.13	1.21	1.73	6.44	6.4	142.8	--	--
09:40	5	20	250	2.58	--	7.11	1.19	1.22	6.27	6.2	121.3	--	--
09:45	5	25	250	2.78	--	7.11	1.17	1.12	5.9	6.2	96.9	--	--
09:50	5	30	250	2.91	--	7.11	1.17	0.64	5.9	6.1	83.8	--	--
09:55	5	35	250	3.05	--	7.1	1.16	0.75	5.42	6.1	64.5	--	--
10:00	5	40	250	3.19	--	7.1	1.16	0.93	5.12	6.1	52.1	--	--
10:05	5	45	250	3.31	--	7.09	1.16	0.76	4.6	6.2	41.2	--	--
10:10	5	50	250	3.40	--	7.09	1.16	0.78	4.6	6.3	34.2	--	--
10:15	5	55	250	3.53	--	7.09	1.16	0.72	3.99	6.3	26.3	--	--
10:20	5	60	250	3.65	--	7.09	1.16	0.71	3.9	6.3	25.7	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-26			**Date**	01/06/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	16.0 degrees F and Cloudy. The wind is blowing SW at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.83	**Total Depth (ft-bmp)**	18.02	**Water Column (ft)**	13.19	**Gallons in Well**	2.14
Purge Start	09:32	**Pump Intake (ft-bmp)**	7.2	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	10:50	**Volumes Purged**	0.93	**Sample ID**	JS-MW-26_GW-010622	**Sampled by**	Gary Schafer
Sample Time	10:31	**Gallons Purged**	2.00	**Replicate/ Code No.**	JS-MW-26-MS_GW-010622, JS-MW-MSD_GW-010622	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:35	0	0	250	5.20	--	7.06	4.12	16.9	2.42	10.7	261.9	--	--
09:40	5	5	250	5.85	--	7.06	4.12	11.8	2.35	10.7	258.1	--	--
09:45	5	10	250	6.30	--	7.07	4.12	10.5	2.38	10.7	256.2	--	--
09:50	5	15	250	6.40	--	7.08	4.12	7.17	2.36	10.7	249.5	--	--
09:55	5	20	250	5.10	--	7.08	4.04	4.82	2.29	10	231.7	--	--
10:00	5	25	250	6.45	--	7.09	4.1	5.24	1.96	11	215.2	--	--
10:05	5	30	250	6.80	--	7.1	4.12	3.99	1.8	11.2	194.9	--	--
10:10	5	35	250	6.95	--	7.1	4.12	4.4	1.7	11	175.2	--	--
10:15	5	40	250	7.12	--	7.11	4.12	4.11	1.42	11	141.1	--	--
10:20	5	45	250	7.20	--	7.11	4.12	4.08	1.4	11.1	134.1	--	--
10:25	5	50	250	7.20	--	7.11	4.13	5.33	1.36	11	117.2	--	--
10:30	5	55	250	7.20	--	7.12	4.13	4.16	1.33	11.1	101.3	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-27			**Date**	01/06/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	19.0 degrees F and Light Snow. The wind is blowing SW at 10.3 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.93	**Total Depth (ft-bmp)**	15.78	**Water Column (ft)**	5.85	**Gallons in Well**	0.95
Purge Start	12:12	**Pump Intake (ft-bmp)**	10.22	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	13:01	**Volumes Purged**	2.11	**Sample ID**	JS-MW-27_GW-010622	**Sampled by**	Gary Schafer
Sample Time	12:56	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:15	0	0	250	10.10	--	6.93	5.23	41.4	0.41	11.6	-58.4	--	--
12:20	5	5	250	10.13	--	7.05	3.65	27.3	0.43	11.4	-37.4	--	--
12:25	5	10	250	10.17	--	7.09	2.94	19.3	1.33	11.3	-34.1	--	--
12:30	5	15	250	10.18	--	7.08	2.68	7.05	1.01	11	-30.6	--	--
12:35	5	20	250	10.18	--	7.08	2.67	5.31	1	11.1	-35.1	--	--
12:40	5	25	250	10.20	--	7.07	2.67	3.26	0.78	11	-28.7	--	--
12:45	5	30	250	10.20	--	7.06	2.67	2.55	0.72	11	-28.8	--	--
12:50	5	35	250	10.20	--	7.05	2.68	2.06	0.71	10.9	-28.9	--	--
12:55	5	40	250	10.22	--	7.05	2.67	1.92	0.68	11.2	-27.4	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-28			**Date**	01/05/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	26.1 degrees F and Light Snow. Winds from west at 40 mph				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	2.68	**Total Depth (ft-bmp)**	9.68	**Water Column (ft)**	7	**Gallons in Well**	1.14
Purge Start	13:53	**Pump Intake (ft-bmp)**	2.93	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	14:43	**Volumes Purged**	1.75	**Sample ID**	JS-MW-28_GW-010522	**Sampled by**	Gary Schafer
Sample Time	14:36	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
13:55	0	0	250	2.81	--	7.25	1.22	9.75	6.2	8.4	64.5	--	--
14:00	5	5	250	2.81	--	7.25	1.22	6.37	4.82	8.1	67.9	--	--
14:05	5	10	250	2.80	--	7.24	1.22	7.24	4.78	8.1	71.7	--	--
14:10	5	15	250	2.84	--	7.24	1.22	4.98	4.83	8.3	73.4	--	--
14:15	5	20	250	2.86	--	7.24	1.21	4.14	4.83	8.4	76.5	--	--
14:20	5	25	250	2.86	--	7.23	1.21	4.27	4.76	8.4	80.7	--	--
14:25	5	30	250	2.86	--	7.21	1.2	3.71	4.72	8.4	84.9	--	--
14:30	5	35	250	2.93	--	7.21	1.17	3.41	4.68	8.4	85.3	--	--
14:35	5	40	250	2.93	--	7.21	1.17	3.21	4.67	8.5	85.6	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA _____ Key Number To Well: NA _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30075936	**Well ID**	JS-MW-29			**Date**	01/04/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	28.0 degrees F and Mostly Cloudy. The wind is blowing S at 9.2 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.48	**Total Depth (ft-bmp)**	10.18	**Water Column (ft)**	8.7	**Gallons in Well**	1.41
Purge Start	12:22	**Pump Intake (ft-bmp)**	5.81	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	13:11	**Volumes Purged**	1.06	**Sample ID**	JS-MW-29_GW-010422	**Sampled by**	Gary Schafer
Sample Time	13:06	**Gallons Purged**	1.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:25	0	0	250	2.35	--	7.28	2.5	5.38	3.93	8.7	30.5	--	--
12:30	5	5	250	2.94	--	7.28	2.49	4.59	3.64	8.9	8.6	--	--
12:35	5	10	250	3.38	--	7.27	2.49	3.72	3.66	8.1	-5.7	--	--
12:40	5	15	250	3.93	--	7.29	2.48	4.36	3.06	8.8	3.4	--	--
12:45	5	20	250	4.50	--	7.29	2.47	4.26	3.07	8.8	2.9	--	--
12:50	5	25	250	4.92	--	7.28	2.47	3.91	3.08	8.8	2.1	--	--
12:55	5	30	250	5.39	--	7.29	2.47	3.11	2.97	8.8	1.8	--	--
13:00	5	35	250	5.42	--	7.28	2.47	3.44	2.81	8.8	1.9	--	--
13:05	5	40	250	5.81	--	7.28	2.47	3.01	3.06	8.8	-3.6	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30075936	**Well ID**	JS-MW-30			**Date**	01/06/2022
Project Name/Location	RACER Pontiac North Campus 2021	**Weather(°F)**	18.0 degrees F and Light Snow. The wind is blowing SW at 10.3 mph.				
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.63	**Total Depth (ft-bmp)**	8.18	**Water Column (ft)**	6.55	**Gallons in Well**	1.06
Purge Start	11:02	**Pump Intake (ft-bmp)**	2.17	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	11:52	**Volumes Purged**	1.89	**Sample ID**	JS-MW-30_GW-010622	**Sampled by**	Gary Schafer
Sample Time	11:46	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:05	0	0	250	1.95	--	7.13	0.77	16	6.41	6.9	115.8	--	--
11:10	5	5	250	2.00	--	7.14	0.77	8.8	4.57	7.1	118.3	--	--
11:15	5	10	250	2.12	--	7.12	0.77	6.88	3.96	7	120.6	--	--
11:20	5	15	250	2.00	--	7.12	0.771	4.63	3.33	6.5	123	--	--
11:25	5	20	250	2.00	--	7.12	0.771	4.29	3.19	6.5	123.1	--	--
11:30	5	25	250	2.00	--	7.11	0.762	3.07	3.26	6.6	123.3	--	--
11:35	5	30	250	2.08	--	7.12	0.77	3.35	2.92	7.3	122.5	--	--
11:40	5	35	250	2.10	--	7.11	0.77	3.01	2.98	7.3	122.5	--	--
11:45	5	40	250	2.17	--	7.11	0.77	2.7	2.89	7.2	121.5	Clear	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Appendix D

Well Abandonment Logs

MONITOR WELL ABANDONMENT RECORD

Site Name : RACER Pontiac

Well ID: JS-SB-01

Site Name: RACER Pontiac

County: Oakland

Well ID: JS-SB-01

Project Number: 30075936

Date Installed: 4/29/2021

Date Abandoned: 11/29/2021

Subcontractor: Terraprobe

Well Depth: 10 ft

Screen Depth from TOC (ft): 8 ft

Water Table Depth from TOC: 9.07 ft

Casing Type: Galvanized ☐ PVC ☑ Stainless Steel ☐ ID: 2in ☑ 4in ☐

Screen Type: PVC ☑ Stainless steel ☐ Abandoned Screen Length: 2 ft

2in Annulus Grouted: Yes ☑ No ☐ from 2 ft to 7 ft Grout Type: Bentonite

4in Annulus Grouted: Yes ☐ No ☐ from __ ft to __ ft Grout Type:

Casing: Pulled ☑ Cut ☐ Depth BGS: Well Grouted? Yes ☑ No ☐

Grout Type: Bentonite ☑ Cement ☐ Grout Mixture: Chips ☑ Slurry ☐

Grouting Method: Through Casing ☐ Tremie ☐ Poured ☑

Other ☐ Grouting Method Other:

Crew: Scott Seals, Floyd Kanavel

Comments: Backfilled with bentonite chips.

Notes:

ft - feet in - inches TOC - Top of Casing

ID - Inside Diameter BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : RACER Pontiac

Well ID: JS-SB-01

Location Sketch: See attached site map

Well before Abandonment



Well after Abandonment



Signature Of Consultant	
Arcadis/Geologist	11/29/2021
Company / Position	Date

MONITOR WELL ABANDONMENT RECORD

Site Name : RACER Pontiac

Well ID: JS-SB-02

Site Name: RACER Pontiac

County: Oakland

Well ID: JS-SB-02

Project Number: 30075936

Date Installed: 4/27/2021

Date Abandoned: 11/29/2021

Subcontractor: Terraprobe

Well Depth: 14 ft

Screen Depth from TOC (ft): 9 ft

Water Table Depth from TOC: 11.72 ft

Casing Type: Galvanized ☐ PVC ☑ Stainless Steel ☐ ID: 2in ☑ 4in ☐

Screen Type: PVC ☑ Stainless steel ☐ Abandoned Screen Length: 5 ft

2in Annulus Grouted: Yes ☑ No ☐ from 2 ft to 7 ft Grout Type: Bentonite

4in Annulus Grouted: Yes ☐ No ☐ from __ ft to __ ft Grout Type:

Casing: Pulled ☑ Cut ☐ Depth BGS: Well Grouted? Yes ☑ No ☐

Grout Type: Bentonite ☑ Cement ☐ Grout Mixture: Chips ☑ Slurry ☐

Grouting Method: Through Casing ☐ Tremie ☐ Poured ☑

Other ☐ Grouting Method Other:

Crew: Scott Seals, Floyd Kanavel

Comments: Backfilled with bentonite chips.

Notes:

ft - feet in - inches TOC - Top of Casing

ID - Inside Diameter BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : RACER Pontiac

Well ID: JS-SB-02

Location Sketch: See attached site map

Well before Abandonment



Well after Abandonment



Signature Of Consultant

Arcadis/Geologist — 11/29/2021

Company / Position — Date

MONITOR WELL ABANDONMENT RECORD

Site Name : RACER Pontiac

Well ID: JS-SB-08

Site Name: RACER Pontiac

County: Oakland

Well ID: JS-SB-08
Date Installed: 4/29/2021

Project Number: 30075936
Date Abandoned: 11/29/2021

Subcontractor: Terraprobe

Well Depth: 14 ft

Screen Depth from TOC (ft): 9 ft

Water Table Depth from TOC: 9.6 ft

Casing Type: Galvanized ☐ PVC ☑ Stainless Steel ☐ ID: 2in ☑ 4in ☐

Screen Type: PVC ☑ Stainless steel ☐ Abandoned Screen Length: 5 ft

2in Annulus Grouted: Yes ☑ No ☐ from 2 ft to 7 ft Grout Type: Bentonite

4in Annulus Grouted: Yes ☐ No ☐ from __ ft to __ ft Grout Type:

Casing: Pulled ☑ Cut ☐ Depth BGS: Well Grouted? Yes ☑ No ☐

Grout Type: Bentonite ☑ Cement ☐ Grout Mixture: Chips ☑ Slurry ☐

Grouting Method: Through Casing ☐ Tremie ☐ Poured ☑

Other ☐ Grouting Method Other:

Crew: Scott Seals, Floyd Kanavel

Comments: Backfilled with bentonite chips.

Notes:
ft - feet in - inches TOC - Top of Casing
ID - Inside Diameter BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : RACER Pontiac

Well ID: JS-SB-08

Location Sketch: See attached site map

Well before Abandonment

No pre-abandonment photo was collected

Well after Abandonment



Additional Photos



Signature Of Consultant

Arcadis/Geologist

Company / Position

11/29/2021

Date

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