



Strong Advocates, Effective Solutions, Integrated Implementation

May 1, 2023

Mr. Andrew Zwack
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

Re: Tecumseh Redevelopment Inc., Lackawanna, NY Site
ATP SWMU Group ECM
Annual Monitoring & Maintenance Summary Report
Reporting Period January 1- December 31, 2022

Dear Mr. Zwack:

On behalf of Tecumseh Redevelopment Inc., TurnKey Environmental Restoration, LLC (TurnKey) is herein providing the Annual Monitoring and Maintenance Summary Report for the Acid Tar Pits (ATP) Solid Waste Management Unit (SWMU) Group Expedited Corrective Measure (ECM) for calendar year 2022. This summary report has been prepared in accordance with the monitoring requirements contained in the Operation, Maintenance, and Monitoring (OM&M) Plan (May 2017).

1.0 BACKGROUND

The ATP-ECM is comprised of three remedial components: a soil-bentonite slurry wall keyed into native confining soils; a cover system; and a groundwater collection and pretreatment system. The approximately 40-foot-deep soil-bentonite slurry wall (the lateral component of the containment cell), was completed in the fall of 2011 and surrounds SWMUs S-11 and S-22 (see Figure 1).

Groundwater/leachate extraction wells EW-1 and EW-2, installed within the containment cell, were activated in December 2012 (see Figure 1 for locations). Groundwater/leachate is extracted from these wells via submersible pumps and conveyed to an onsite pretreatment system incorporating oil/water separation, filtration, pH adjustment and air stripping unit processes. The pretreated water is discharged to the plant sanitary sewer and ultimately the publicly operated sewerage system under a discharge permit with Erie County Sewer District No. 6. A third extraction well (EW-3) originally installed within the northern portion of the containment cell was not used due to localized groundwater quality (e.g., low pH, foaming) and other waste fill characteristics (e.g., low hydraulic conductivity) proximate to the well screen. A replacement well for EW-3, deemed "EW-3R," was installed in the northwestern

portion of the cell near piezometer P-62D (see Figure 1) and became operational in August 2015.

Final waste consolidation and cover system construction was completed in late 2015. This phase of the remedial work, deemed Operable Units (OU) 2 and 3 respectively, is detailed in the January 2016 Construction Completion Report (CCR) prepared by Benchmark Environmental Engineering & Science, PLLC (Benchmark) in association with TurnKey.

Downgradient Pumping Well Installation

The results of the RCRA Corrective Measures Study (CMS) indicated that prior to the construction of the ATP-ECM containment cell, contamination from the Acid Tar Pits area had migrated northerly towards Smokes Creek. Although significant improvement in groundwater quality was observed following containment cell construction, downgradient concentrations in groundwater outside the ATP containment cell remained at levels significantly above NY Groundwater Quality Standards. TurnKey prepared a conceptual remedial approach for this groundwater in a report titled “Engineering Report for Acid Tar Pit (ATP) SWMU Group Operable Unit OU-2¹ - External Groundwater Corrective Measure” dated April 2014 which was approved for implementation by the NYSDEC.

The external groundwater corrective measure called for installation of four groundwater pumping wells (PW-1 through PW-4) between the containment cell and Smokes Creek, with discharge from the external pumping wells directed via a new force main to the ATP pretreatment system. The new wells were installed and placed into service in Fall of 2015. Details of the pumping well and force main construction were provided to the Department in an April 2016 amendment to the February 2013 ATP SWMU Group Phase III Construction Completion Report. Both interior and exterior pumping well set-point elevations are controlled from the pretreatment building and are operated to maintain a delicate balance between slight drawdown from static conditions in exterior pumping wells while maintaining an inward gradient across the containment wall.

Interior Extraction Well Maintenance and Replacement

Indications of screen clogging were observed in early 2019 at the extraction wells within the containment cell.

Based upon the significant drop in the recovery rate at EW-2 and the comparatively low recovery rate at EW-3R, Tecumseh elected to replace those wells via over-drilling and install replacement wells with an improved screen/sand pack design at the same locations. Between the period of August - September 2019, EW-2 and EW-3R wells were over-drilled and reinstalled with replacement Schedule 80 PVC wells fitted with 20-foot PVC wedge wire (aka V-wire) screens.

¹ OU-2 was re-designated by the NYSDEC to OU-3 in April 2015.

Groundwater recovery rates were measured following purging. The recovery rate at EW-2 increased significantly, climbing from 0.2 gpm to 6 gpm following replacement. The recovery rate at well EW-3R increased by approximately 75% from 0.4 gpm to 0.7 gpm.

2.0 GROUNDWATER CAPTURE SYSTEM PERFORMANCE

During 2022, the groundwater elevations in the network of wells and piezometers within and surrounding the ATP containment cell was monitored on a minimum quarterly basis per the OM&M Plan. Table 1 presents groundwater elevation data obtained on March 16, June 29, August 24, and November 30, 2022. Isopotential maps corresponding to each of these events are presented as Figures 2 through 5. When generating the groundwater contours at paired wells, the well that is screened in the sand layer is used because the extraction wells and piezometers are all screened in the sand layer. TurnKey has employed wells screened in the fill layer (i.e., MWS-02, MWS-03, MWS-15, and MWS-29A) to expand the view and “fill in” data points for the isopotential map where wells completed in the sand layer are fewer or farther apart.

The isopotential maps illustrate inward gradient toward the extraction wells within the interior of the containment cell reflecting active removal of groundwater from contained saturated soil/fill porous media. This reflects effective hydraulic control being achieved by the combined effects of the lateral low-permeability slurry wall barrier, low infiltration through the geocomposite cover system, and interior groundwater extraction. The isopotential maps also clearly indicate that the exterior groundwater pumping wells (ATP-PW1, -PW2, -PW3, and -PW4) are effectively capturing impacted groundwater that escaped the ATP SWMU Group prior to implementation of the final ATP-ECM remedy.

Table 1 shows a significant elevation difference between the well pair MWS-23A and MWS-23B. The significant groundwater elevation difference between MWS-23A and MWS-23B is likely due to a zone of very dense material located between the screened zones of these two wells. The boring log for MWS-23B documents a zone just above the sand layer that is very dense with greater than 50 blows required to advance 0.4 feet. This very dense layer appears to act as an aquitard and causes a localized perched water table. The screened interval of MWS-23A is located above the dense layer and recorded groundwater elevations at that well are reflective of the localized perch water table. The screened zone for MWS-23B is located below the dense layer and not subject to the localized perched water table.

3.0 GROUNDWATER PRETREATMENT SYSTEM PERFORMANCE

The groundwater pretreatment system was generally operated without interruption during the current monitoring period except for short-duration shutdowns related to routine maintenance (e.g., cleaning of the air stripper, changing out bag filters, etc.).

Groundwater Pretreatment System Maintenance

Major routine and non-routine maintenance events as well as alarm conditions/corrective actions taken during the reporting period are listed on Table 2. The recorded hours of operation and cycle counts for 2022 are presented for each of the extraction and pumping wells on Table 3.

Groundwater Pretreatment System Effluent Monitoring

Attachment 1 includes the April 2022 and October 2022 Semi-Annual Reports submitted to Erie County Sewer District No. 6. As presented in these reports, the pretreatment system effluent flow, pH, and regulated parameter concentrations were conformant with the permitted discharge limits during both events.

Groundwater Extraction Volumes

The pretreatment system process flow rate and total gallons treated are monitored on the process discharge line via a flow sensor and transmitter. Similarly, a flow sensor and transmitter is located on the extraction well manifold in the pretreatment building. The total flow through the pretreatment system during the period of December 30, 2021 through December 30, 2022 was approximately 563,000 gallons. For that same period, approximately 209,000 gallons of groundwater was collected by the interior extraction wells based upon the readings recorded on the extraction well flow meter. Table 4 provides a summary of the pretreatment system flow readings with monthly and yearly totals. During the current monitoring period, the interior groundwater extraction well volume was measured to be approximately 37% of the total flow processed through the pretreatment system, with the remaining 63% produced by the exterior groundwater extraction wells. As the containment cell has dewatered, the ratio has shifted, with the interior extraction wells producing lesser amounts and the exterior extraction wells staying roughly the same with some seasonal variation.

In accordance with NYSDEC's request, Table 5 presents a summary of the volume of groundwater processed through the pretreatment system and the estimated breakdown between interior and exterior extraction well volumes beginning in 2016. Annual rainfall precipitation amounts are also summarized for this period on Table 5. Note that prior to 2019 the flows and associated ratio between interior and exterior flows was determined by multiplying the cycle counts by the approximate volume of water removed between on and off setpoints, which was assumed to include the volume of water within the well casing and surrounding sand pack. Following the installation of the interior extraction well flow meter in November 2019, the ratio between interior and exterior flow is more accurate.

4.0 GROUNDWATER QUALITY MONITORING

In accordance with the approved OM&M Plan, monitoring wells MWS-02, MWS-18A, MWS-18C, MWS-19A, MWS-19B, MWS-20A, and MWS-20B located downgradient of the containment cell are sampled annually in April for analysis of Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs),

arsenic, barium, chromium, lead, and cyanide. The primary constituents of concern (COCs) that are historically prevalent in groundwater in and around the ATP at concentrations in excess of the groundwater quality standards (GWQS) are benzene, phenolics, PAHs and cyanide.

Sample results from March 2022 are summarized on Table 6 along with historical data from prior sampling events. The groundwater monitoring laboratory analytical data package is included in Attachment 2. Time versus concentration plots for BTEX (sum of benzene, toluene, ethylbenzene, and xylene) and cyanide are in Attachment 3. The data have been entered into the NYSDEC's EQuIS database. The BTEX plot and Table 6 clearly illustrate that since the completion of the slurry wall (part of ECM remedial measures) approximately ten years ago, concentrations of these COCs in the most impacted groundwater monitoring wells (i.e., MWS-18A/C and MWS-19A/B) have decreased considerably. In fact, BTEX levels at MWS 18A/C have decreased by 97% and 97% percent, respectively, and BTEX levels at MWS 19A/B have decreased by 88% and 98% percent, respectively. Similarly, cyanide concentrations at MWS 18A/C have decreased by 36% and 87% percent, respectively, and cyanide levels at MWS 19A/B have decreased by 79% and 49% percent, respectively. Table 6 also shows that BTEX concentrations in groundwater monitoring wells MWS-02 and MWS-20A/B that are not directly downgradient of the ATP are historically not significantly above GWQS and have a slightly decreasing trend. Phenolic concentrations in ATP area groundwater show downward trends with all downgradient monitoring wells near or below groundwater quality standards except MWS-18C. The cyanide concentrations have been trending downward and are approaching or below the GWQS in all downgradient monitoring wells except MWS-02. The cyanide concentration at MWS-02 remains above GWQS and has been somewhat erratic but has trended downward since 2018.

5.0 COVER SYSTEM MONITORING

A completed Post-Closure Field Inspection Report is included in Attachment 4. As presented in Attachment 4, the cover system, stormwater pond, and conveyance piping are in good condition and no corrective actions are required at this time.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater pretreatment system is functioning as intended and in compliance with discharge permit limits. The containment cell inward gradient has been maintained across the slurry wall perimeter. The exterior groundwater extraction wells are performing as designed to control impacted groundwater immediately downgradient of the containment cell.

An ATP Assessment Workplan was approved by the NYSDEC on March 15, 2023. This assessment will provide more information on how groundwater behaves in and around the ATP Containment Cell.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC



Brock Greene
Senior Project Environmental Scientist

cc: S. Radon, (NYSDEC – Region 9)
K. Nagel (Tecumseh)
T. Forbes (TurnKey)

TABLES



TABLE 1
ATP GROUNDWATER PRETREATMENT SYSTEM
GROUNDWATER ELEVATION SUMMARY ^{1,2,3}

ATP ECM 2022 ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Well Designation	Hydrogeologic Unit	03/16/22	06/29/22	08/24/22	11/30/22
MWS-02	F	574.8	574.3	573.7	575.0
MWS-03	F	573.7	573.3	573.0	574.2
MWS-10	F	576.7	575.7	575.0	577.2
MWS-10B	S	576.6	575.5	574.9	577.2
MWS-11A	S	574.3	573.8	573.2	574.7
MWS-12A	F	575.7	574.8	574.2	576.3
MWS-12B	F,S	575.8	574.6	573.9	576.1
MWS-13	F,S	575.0	574.3	573.7	575.6
MWS-14	F,S	576.0	575.8	575.7	576.4
MWS-14B	S	576.0	575.0	574.4	576.5
MWS-15		574.6	574.1	573.5	574.9
MWS-18A	F	574.4	573.7	573.2	575.7
MWS-18C	S,CS	574.7	573.9	573.3	576.1
MWS-19A	F	573.2	573.1	572.6	573.0
MWS-19B	S	573.2	573.1	572.6	573.0
MWS-20A	S	576.3	575.3	574.4	577.6
MWS-20B	S,CS	576.2	575.1	574.3	577.4
MWS-21A	F,S	576.2	575.4	574.5	576.6
MWS-21B	S	576.3	575.3	574.3	576.8
MWS-23A	F	582.9	581.2	580.4	582.5
MWS-23B	S	576.5	575.5	574.8	577.1
MWS-24AR	F,S	576.5	575.6	574.9	577.1
MWS-24B	S,C	574.9	574.5	574.1	575.0
MWS-25A	F,S	576.2	575.3	574.7	576.7
MWS-25B	F,S	576.2	575.3	574.6	576.8
MWS-29A	F	577.4	577.2	577.0	576.3
MWS-2U1B		574.4	573.9	573.3	574.6
P-61D	S	573.6	573.4	572.7	573.8
P-62D	S	574.2	573.9	573.8	574.6
P-63D	S	575.9	574.8	574.1	577.4
P-64D	S	574.1	573.9	573.7	574.4
EW-1	S	572.5	572.5	572.5	572.5
EW-2	S	572.5	572.5	572.5	572.5
EW-3 ⁴	S	572.9	572.5	572.9	574.7
EW-3R	S	572.5	572.5	572.5	572.5
PW-1	S	572.0	572.0	572.0	572.0
PW-2	S	572.0	572.0	572.0	572.0
PW-3	S	572.0	572.0	572.0	572.0
PW-4	S	572.0	572.0	572.0	572.0
SG-02	--	572.3	573.1	572.6	574.0
Lake Erie (average) ⁵	--	572.3	573.0	572.7	572.4

Notes:

1. Elevation is measured in feet; distance above mean sea level (fmsl).
2. Groundwater elevation corrected based on the presence of free product (i.e., LNAPL), if applicable.
3. Groundwater elevations for extraction wells EW-1, EW-2, EW-3R, PW-1, PW-2, PW-3, and PW-4 presented in the table are reflective of the average of "pump on" and "pump off" elevations.
4. Extraction well EW-3 is utilized as a monitoring well not as a pumping extraction well.
5. Lake Erie Elevation is an average elevation for 24 hrs preceeding 5:00 PM on the day measurements were collected and is taken from NOAA's Buffalo NY station 9063020.

Definitions:

fbTOR = feet below top of riser or reference elevation.
fmsl = feet above mean sea level.
Hydrogeologic Unit = as identified in the RFI & CMS
NM = not measured
NP = no product was observed
NA = not applicable



TABLE 2
ATP GROUNDWATER PRETREATMENT SYSTEM
SUMMARY OF MAJOR AND NON-ROUTINE SYSTEM O&M EVENTS

ATP ECM 2022 ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Date	Alarm Condition	Cause	Response/Corrective Measure
1/5/22	None	PW-4 pumping down slowly	Clean PW-4 impellers
2/4/22	Bag Filter High Pressure Alarm	Clogged bag filter	Replaced bag filters and restarted system
2/16/22	None	Deposit buildup in Air Stripper	Cleaned air stripper
2/22/22	None	Deposit buildup in Oil/Water Separator	Removed sediment buildup from the Oil/Water Separator
3/28/22	None	PW-4 pumping down slowly	Clean PW-4 impellers
4/29/22	None	Effluent flow meter stopped working	Cleaned effluent flow meter
6/7/22	None	PW-4 pumping down slowly	Clean PW-4 impellers
7/15/22	High Air Stripper Sump Alarm	Pump float dirty	Cleaned pump float and restarted system
8/16/22	None	PW-4 pumping down slowly	Clean PW-4 impellers
9/2/22	None	Effluent flow meter stopped working	Cleaned effluent flow meter
9/14/22	None	Deposit buildup in Air Stripper	Cleaned air stripper
9/19/22	High Air Stripper Sump Alarm	Pump float dirty	Cleaned pump float and restarted system
11/15/22	Power Loss Alarm	Blown fuse	Replace fuse and restart system
12/7/22	None	PW-4 pumping down slowly	Clean PW-4 impellers
12/23/22	Building Temperature Low Alarm	Winter storm with cold temps and high winds	Cover exhaust fan and vent to reduce drafts in building
12/23/22	High Air Stripper Sump Alarm	Effluent line frozen	Thawed and repaired effluent pipe and restarted system



TABLE 3
ATP GROUNDWATER PRETREATMENT SYSTEM
EXTRACTION AND PUMPING WELL OPERATION SUMMARY

ATP ECM 2022 ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Date	EW-1 Hours	EW-1 Cycles	EW-2 Hours	EW-2 Cycles	EW-3R Hours	EW-3R Cycles	PW-1 Hours	PW-1 Cycles	PW-2 Hours	PW-2 Cycles	PW-3 Hours	PW-3 Cycles	PW-4 Hours	PW-4 Cycles
1/28/2022	2952.58	633750	3633.56	165561	2561.02	112387	4095.50	939745	3157.96	284005	816.22	45976	8590.45	180290
2/25/2022	2966.04	640662	3674.52	172598	2561.32	112548	4130.01	957593	3168.81	287075	818.89	46589	8662.30	184895
3/25/2022	2979.23	647464	3719.70	179845	2561.74	112763	4163.13	974607	3177.71	289616	821.65	47228	8830.66	189391
4/29/2022	2993.21	654775	3787.19	189092	2562.26	113046	4204.78	996011	3189.69	292942	825.45	48039	8948.41	195824
5/27/2022	3004.56	660741	3849.60	196408	2562.63	113254	4242.39	1014646	3199.15	295444	829.43	48709	9145.55	200500
6/24/2022	3015.53	666317	3918.53	203530	2563.04	113479	4279.80	1033205	3208.85	297546	831.26	49374	9324.35	203660
7/29/2022	3027.37	672128	4007.05	211515	2563.42	113708	4320.87	1057628	3222.01	300267	835.28	50232	9385.98	208457
8/26/2022	3036.61	676475	4086.14	217903	2563.79	113884	4352.78	1069753	3228.10	301635	837.37	50689	9619.20	209076
9/30/2022	3047.94	681371	4189.88	225146	2564.09	114048	4388.93	1088125	3237.15	303436	840.68	51430	9639.59	213019
10/28/2022	3057.09	684901	4272.67	230546	2564.30	114169	4415.97	101899	3244.84	305167	930.89	51944	9858.54	216289
11/25/2022	3066.29	688201	4362.71	235612	2564.56	114308	4443.08	1115743	3253.11	307124	1004.13	52493	10247.09	218105
12/30/2022	3077.85	692233	4480.57	240933	2564.94	114522	4470.90	129873	3262.84	309382	1005.91	52921	10478.08	221524



TABLE 4
ATP GROUNDWATER COLLECTION
AND PRETREATMENT SYSTEM
SUMMARY OF PROCESS FLOW DATA

ATP ECM 2022 ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Date	Pretreatment System Effluent Totalizer (gallons)	Monthly Total Flow (gallons)	Extraction Well Totalizer (gallons)	Extraction Well Monthly Flow (gallons)	Calculated Pumping Well Monthly Flow (gallons)
12/30/2021	11402856	--	719418	--	--
1/7/2022	11415237	48,303	724866	19,593	28,710
1/14/2022	11427364		729635		
1/21/2022	11439497		734372		
1/28/2022	11451159		739011		
2/4/2022	11461707	43,938	743772	18,580	25,358
2/11/2022	11471966		748374		
2/18/2022	11483126		752881		
2/25/2022	11495097		757591		
3/4/2022	11506630	43,688	762339	18,703	24,985
3/11/2022	11517948		767160		
3/18/2022	11528379		771715		
3/25/2022	11538785		776294		
4/1/2022	11549737	48,379	781157	22,703	25,676
4/8/2022	11560937		785667		
4/15/2022	11571806		790165		
4/23/2022	11582779		794537		
4/29/2022	11587164 U	50,855	798997	17,713	33,142
5/6/2022	11597737		803478		
5/13/2022	11610915		807886		
5/20/2022	11624703		812361		
5/27/2022	11638019	52,881	816710	17,337	35,544
6/3/2022	11651062		821010		
6/10/2022	11663671		825395		
6/17/2022	11677612		829784		
6/24/2022	11690900	55,741	834047	19,609	36,132
7/1/2022	11700390		838195		
7/8/2022	11713102		842284		
7/15/2022	11725547		846294		
7/22/2022	11734687	44,962	849593	15,402	29,560
7/29/2022	11746641		853656		
8/5/2022	11758379		857624		
8/12/2022	11770089		861475		
8/19/2022	11781136	41,568	865243	17,351	24,217
8/26/2022	11791603		869058		
9/2/2022	11791711 U		872684		
9/9/2022	11802395		876188		
9/16/2022	11813016	41,082	879625	13,058	28,024
9/23/2022	11822901		883024		
9/30/2022	11833171		886409		
10/7/2022	11843410		889732		
10/14/2022	11853737	42,219	893073	12,646	29,573
10/21/2022	11865298		896330		
10/28/2022	11874253		899467		
11/4/2022	11884774		902655		
11/11/2022	11894760	49,403	905684	15,935	33,468
11/22/2022	11911169		910689		
11/25/2022	11916472		912113		
12/2/2022	11922730		914774		
12/9/2022	11934090	563,019	918640	208,630	354,389
12/16/2022	11948181		922581		
12/23/2022	11962583		926493		
12/30/2022	11965875		928048		
Total Volume Treated 12/31/21-12/30/22	563,019	563,019	208,630	208,630	354,389



TABLE 5
ATP GROUNDWATER TREATMENT VS. ANNUAL PRECIPITATION

ATP ECM 2021 ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Year	Annual Precipitation (inches) ¹	Total Annual Volume Treated (gallons)	Annual Volume from Extraction Wells (gallons)	Annual Volume from Pumping Wells (gallons)
2016 ²	33.87	2,422,004	788,500	1,633,500
2017 ²	48.48	1,616,120	360,674	1,255,446
2018 ²	41.64	925,430	288,160	637,270
2019 ²	47.82	1,150,231	743,800	406,431
2020	39.67	758,713	391,423	367,290
2021	40.33	533,945	264,184	269,761
2022	45.29	563,019	208,630	354,389

Note:

1. Annual precipitation data from National Weather Service, Buffalo, NY historical data
(<https://www.weather.gov/buf/BufaloPcnp>)
2. Annual volume amounts from extraction and pumping wells for 2016-2018 and a portion of 2019 are inaccurate estimates prior to installation of the flow meter on the incoming force main from the interior extraction wells in November 2019.



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-02 ^{3,4}										
				11/8/1999	2/28/2012	4/10/2014	4/28/2015	4/7/2016	4/11/2017	4/17/2018	4/9/2019	4/10/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	1.4	4.06	NA	1.85	3.6	2.27	3.66	2.44	1.3	1.16	1.08
Field pH	NA	6.5 - 8.5	S.U	11.07	10.99	10.30	10.75	10.67	11.41	10.68	11.19	11.30	11.00	11.18
Redox Potential	NA	-	mV	-156	-156	205	210	-81	-245	221	-243	-191	-224	-164
Specific Conductance	NA	-	UMHOS/CM	2,590	2280	2053	1905	1803	2096	1639	2016	1830	1704	1666
Temperature	NA	-	DEG C	14.8	10.1	13.1	13.6	11.3	12.9	7.9	10.4	11.5	14.2	12.2
Turbidity	NA	-	NTU	18	14.6	1.96	8.9	8.0	4.2	1.3	3.86	2.92	3.4	2.13
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	8.3	9.8	1.1 J	1 J	1.2 J	3	ND	1.1 J	0.93 J	ND	1.5 J
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	1 J	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	1.7	ND	0.43 J	0.91	2.6	0.21 J	0.99	0.82	ND	1.6
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	0.54 J	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	0.55 J	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	7.2	14	2	5.1	7.8	4.7 J	2.5 J	ND	ND
Benzene	71-43-2	1	ug/l	14	0.49 J	2.1	8.5	4.1	12	1	6.8	7.2	ND	9.2
Bromomethane	74-83-9	5	ug/l	ND	ND	ND	1.5 J	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	-	ug/l	-	0.37 J	0.4 J	0.84 J	0.93 J	1.5 J	ND	0.97 J	0.77 J	ND	0.9 J
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	2.2 J	3.6 J	3.3 J	8.7 J	1 J	6.9 J	4.4 J	ND	4.7 J
Methylene chloride	75-09-2	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	0.38 J	ND	ND	0.3 J	0.52 J	ND	0.35 J	0.25 J	ND	0.32 J
Toluene	108-88-3	5	ug/l	1.2 J	ND	ND	1.3 J	ND	1.1 J	ND	ND	0.76 J	ND	1 J
Trichloroethene	79-01-6	5	ug/l	ND	0.57	ND	0.32 J	0.4 J	1	ND	ND	0.42 J	ND	0.72
Vinyl chloride	75-01-4	2	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, m/p	179601-23-1	5	ug/l	-	ND	ND	ND	ND	0.85 J	ND	ND	ND	ND	ND
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	1.9 J	ND	ND	ND	ND	0.85 J	ND	ND	ND	ND	ND
TOTAL BTEX	NA	NA	ug/l	17.1	0.49	2.1	9.8	4.1	13.95	1	6.8	7.96	ND	10.2
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	R	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	10	ug/l	ND	ND	ND	ND	0.79	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	0.16 J	0.65	0.21 J	1.9	2.4	0.27	1.4	1.3	ND	2.6
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	R	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	R	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	20	ug/l	-	0.29	0.15 J	ND	0.46	0.53	0.1	0.36	0.33	ND	0.62
Acenaphthylene	208-96-8	-	ug/l	ND	0.7	0.47	ND	1.5	1.8	0.32	0.95	1	ND	2.1
Acetophenone	98-86-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.3 J
Anthracene	120-12-7	50	ug/l	ND	0.18 J	0.36	0.19 J	1.3 J	1.3	0.13	0.67	0.61	ND	1.6
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	0.03 J	0.03 J	ND	0.09 J
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	9.1 J	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	3.8 J	ND	ND	2.3 J	ND	ND	3.9	ND	3.3	1.6 J	ND
Caprolactam	34876-18-1	-	ug/l	-	-	ND	2.7 J	3.9 J	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	-	ug/l	-	ND	0.5 J	ND	1.1 J	1.1 J	ND	0.96 J	0.79 J	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	0.01 J	ND	ND
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	-	ug/l	-	ND	0.81 J	ND	2.2	ND	ND	1.7 J	1.6 J	ND	3.8 J
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	50	ug/l	2.2 J	1.3	0.38	0.11 J	1.4 J	1.2	0.18	0.91	0.77	ND	1.5
Fluorene	86-73-7	50	ug/l	8.6 J	1.2	1.5	0.24	4.9	4.7	0.59	2.7	2.9	ND	6.2
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	10	ug/l	25	0.27	2.2	0.87	6	9.1	0.94	5.5	5.8	ND	8.4
Pentachlorophenol	87-86-5	1 *	ug/l	R	-	ND	ND	ND	1.1	ND	0.52 J	0.25 J	ND	1.5 J
Phenanthrene	85-01-8	50	ug/l	14	0.2	2.6	0.27	9.5	8.4	0.49	4.7	4.8	ND	12
Phenol	108-95-2	1 *	ug/l	R	-	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND
Pyrene	129-00-0	50	ug/l	1.3 J	0.88	0.26	0.11 J	0.72	ND	0.15	0.56	0.44	ND	0.82
Pyridine	110-86-1	50	ug/l	ND	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	51.1	5.18	8.57	2	27.68	29.43	3.17	17.78	17.99	ND	35.93
TOTAL Phenolic Compounds	NA	1	ug/l	ND	ND	ND	2.5	ND	1.1	ND	0.52	0.25	ND	1.5
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	2.3 B	4 J	1.33	1.88	4.4 J	6.19	1.33	1.53	1.28	1.36	1.71
Barium, Total	7440-39-3	1000	ug/l	37.6 B	41	42.29	38.94	33	18.5	31.95	34.31	33.92	26.53	-
Cadmium, Total	7440-43-9	5	ug/l	ND	-	-	-	-	-	-	-	ND	-	-
Chromium, Total	7440-47-3	50	ug/l	7.1	3 J	8.24	18.14 J	16 J	9.59	20.12	4.9	2.99	6.52	2.22
Lead, Total	7439-92-1	25	ug/l	ND	3 J	0.27 J	0.8 J	ND	23.79	ND	ND	ND	ND	1.18
Selenium, Total	7782-49-2	10	ug/l	8	-	-	-	-	-	-	-	5.16	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	1200	1850	8250	8140	1860	92	6440	3780	1850	1920	276
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	ND	20 J	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-18A										
				11/9/1999	2/28/2012	4/10/2014	4/28/2015	4/8/2016	4/11/2017	4/17/2018	4/9/2019	4/9/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	0.4	2.5	NA	3.63	2.08	2.77	2.1	1.56	1.56	1.34	0.82
Field pH	NA	6.5 - 8.5	S.U	9.03	9.28	9.47	8.85	8.73	10.34	9.84	8.95	9.38	8.60	8.92
Redox Potential	NA	-	mV	-474	-103	-104	-54	-92	-1.23	-120	-178	-136	-188	-197
Specific Conductance	NA	-	UMHOS/CM	4,700	3323	2649	2623	2767	2470	2725	3042	2717	2928	2826
Temperature	NA	-	DEG C	15.3	12.2	13.7	13.7	9.1	13.2	8.4	9.3	10.9	16.8	12.6
Turbidity	NA	-	NTU	91	17.4	16.4	30	14.6	5.64	3.4	4.86	10.3	14.7	98.3
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	ND	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	71-43-2	1	ug/l	140000	39000 D	4200 D	7100 D	7000 D	4600 D	1900 D	7500 D2	5000	4100 D	3800 D
Bromomethane	74-83-9	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	7.2 J	ND	ND
Vinyl chloride	75-01-4	2	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, m/p	179601-23-1	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL BTEX	NA	NA	ug/l	140000	39000	4200	7100	7000	4600	1900	7500	5000	4100	3800
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	21 J	-	1.8 J	0.81 J	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	10	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	0.12 J	0.08 J	0.09 J	0.19 J	0.15 J	0.11	0.37	0.21	0.41	0.22
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	31	-	6.8	3.5 J	1.6 J	ND	ND	ND	ND	0.89 J	ND
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	ND	-	1.8 J	8.4	1.6 J	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	20	ug/l	-	0.1 J	0.08 J	0.08 J	ND	0.09 J	0.06 J	0.18	0.14	0.18	0.12
Acenaphthylene	208-96-8	-	ug/l	ND	0.05 J	ND	ND	ND	0.06 J	0.05 J	0.12	0.07 J	0.09 J	0.07 J
Acetophenone	98-86-2	-	ug/l	-	48	1.9 J	1.1 J	ND	ND	ND	ND	ND	0.54 J	ND
Anthracene	120-12-7	50	ug/l	ND	ND	0.07 J	0.07 J	ND	0.04 J	0.04 J	0.06 J	0.02 J	0.05 J	ND
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	0.05 J	ND	0.02 J	0.09 J
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	0.04 J	ND	0.02 J	0.09 J
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	0.01 J	0.07 J
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J	0.06 J
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	8.2 J	-	-	-	-	-	-	ND
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	ND	ND	1.3 J	11	ND	ND	ND	ND	ND	2.4 J	ND
Caprolactam	34876-18-1	-	ug/l	-	-	ND	ND	ND	ND	ND	ND	28	ND	ND
Carbazole	86-74-8	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07 J
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J	0.05 J
Dibenzofuran	132-64-9	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07 J
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	50	ug/l	ND	ND	0.05 J	ND	ND	ND	ND	0.12	0.03 J	0.04 J	0.06 J
Fluorene	86-73-7	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J	0.05 J	ND
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J	0.08 J
Naphthalene	91-20-3	10	ug/l	ND	1.4	1.2	1.4	2.9	2.8	2.3	4.8	3.3	3.8	2.8
Pentachlorophenol	87-86-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	50	ug/l	ND	0.16 J	0.12 J	0.09 J	ND	0.06 J	0.03 J	0.18	0.14	0.16	0.11
Phenol	108-95-2	1 *	ug/l	110	-	1.4 J	12	4.2 J	ND	ND	ND	1.1 J	ND	ND
Pyrene	129-00-0	50	ug/l	ND	ND	ND	ND	ND	ND	ND	0.09 J	ND	0.03 J	0.06 J
Pyridine	110-86-1	50	ug/l	150 J	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	ND	3.83	1.6	1.73	3.09	3.2	2.59	6.01	3.94	4.92	4.03
TOTAL Phenolic Compounds	NA	1	ug/l	162	-	11.8	24.71	7.4	ND	ND	ND	1.1	0.89	ND
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	7.7 B	4 J	3.71	3.95	7.5	3.57	5.43	3.75	3.21	3.32	3.42
Barium, Total	7440-39-3	1000	ug/l	40.6 B	24	26.03	27.56	24.7	19.76	17.41	21.82	23.54	20.46	-
Cadmium, Total	7440-43-9	5	ug/l	ND	-	-	-	-	-	-	-	ND	-	-
Chromium, Total	7440-47-3	50	ug/l	53.1	5 J	9.89	8.34	ND	3.96	6.77	0.54 J	1.75	0.65	1.58
Lead, Total	7439-92-1	25	ug/l	7.3	4 J	2.09	1.24	ND	3.44	ND	ND	0.46 J	ND	1.97
Selenium, Total	7782-49-2	10	ug/l	ND	-	-	-	-	-	-	-	ND	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	530 J	445	417	330	382	332	249	162	348	267	338
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	130	250	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-18C										
				12/19/28/00	2/28/2012	4/10/2014	4/28/2015	4/8/2016	4/11/2017	4/17/2018	4/9/2019	4/9/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	NA	3.76	NA	1.57	1.83	2.03	1.84	1.11	1.33	2.56	1.06
Field pH	NA	6.5 - 8.5	S.U	6.93	4.57	6.40	6.62	4.48	4.71	6.84	5.28	4.82	4.25	4.92
Redox Potential	NA	-	mV	-73	33	-83	-86	144	140	-78	-36	72	133	70
Specific Conductance	NA	-	UMHOS/CM	4,100	6634	3369	2746	7342	4660	3012	4110	4496	6319	5481
Temperature	NA	-	DEG C	11.2	12.1	13.0	12.4	10.8	13.1	9.0	9.8	11.9	15.7	12.4
Turbidity	NA	-	NTU	233	39.6	107	112	73.9	124	16.6	45.6	268	112	97.1
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	ND	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	ND	ND	ND	ND	ND	19 D J	15 J	17 D J	ND
Benzene	71-43-2	1	ug/l	65000 D	9600	340	910	4400	1400	43	1200 D	470	1600 D	1700 D
Bromomethane	74-83-9	5	ug/l	R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	660	6.3 J	24 J	480	140 J	ND	250 D	53	260 D	320 D
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5	ug/l	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	5	ug/l	340 J	51 J	ND	11 J	140 J	72 J	ND	38 D	16	57 D	67 D
Trichloroethene	79-01-6	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	2	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, m/p	179601-23-1	5	ug/l	-	85 J	ND	9.3 J	150	54 J	ND	44 D	13	54 D	49 D J
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	500 J	85 J	ND	9.3 J	150	54 J	ND	44	13	54 D	49 D
TOTAL BTEX	NA	NA	ug/l	65840	9736	340	930.3	4690	1526	43	1282	499	1711	1816
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	20 J	-	1.8 J	5.4	12	4.8 J	ND	5.4	7.1	13	7.6
2-Chloronaphthalene	91-58-7	10	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	0.23	ND	ND	ND	0.07 J	ND	0.06 J	0.05 J	0.21	ND
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	19 J	-	ND	2.3 J	8.2	ND	ND	ND	ND	5.4	4.4 J
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	40 J	-	ND	9.5	31	9.9	ND	12	18	25	17
Acenaphthene	83-32-9	20	ug/l	-	ND	ND	ND	0.09 J	ND	ND	0.07 J	ND	0.04 J	ND
Acenaphthylene	208-96-8	-	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND
Acetophenone	98-86-2	-	ug/l	-	4.6 J	2.9 J	9.3	43	11	ND	17	7.5	23	20
Anthracene	120-12-7	50	ug/l	ND	0.07 J	0.12 J	0.08 J	0.14 J	0.06 J	0.06 J	0.06 J	0.07 J	0.08 J	0.04 J
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND	0.05 J
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	0.02 J	ND	0.02 J	0.05 J
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	62	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	ND	ND	ND	15	ND	ND	5.8	ND	1.8 J	3.3	ND
Caprolactam	34876-18-1	-	ug/l	-	-	22	16	ND	ND	ND	ND	ND	ND	7 J
Carbazole	86-74-8	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.48 J	ND
Fluoranthene	206-44-0	50	ug/l	ND	ND	0.14 J	ND	ND	ND	ND	0.05 J	0.04 J	0.05 J	0.06 J
Fluorene	86-73-7	50	ug/l	ND	ND	ND	ND	ND	ND	ND	0.04 J	0.04 J	0.05 J	ND
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	10	ug/l	ND	0.42	0.17 J	0.23	0.53	0.21	ND	0.36	0.16	0.89	0.2
Pentachlorophenol	87-86-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	50	ug/l	ND	ND	0.08 J	ND	ND	0.04 J	ND	0.04 J	0.08 J	0.06 J	0.04 J
Phenol	108-95-2	1 *	ug/l	280 J	-	3.6 J	20	76	27	ND	25	51	50	43
Pyrene	129-00-0	50	ug/l	ND	ND	0.11 J	ND	ND	ND	ND	ND	0.03 J	0.04 J	0.06 J
Pyridine	110-86-1	50	ug/l	18000 D	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	ND	0.72	0.62	0.31	0.76	0.38	0.06	0.73	0.5	1.44	0.5
TOTAL Phenolic Compounds	NA	1	ug/l	359	-	5.4	37.2	127.2	41.7	ND	42.4	76.1	93.4	72
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	16.1	5	6.88	9.23	118	8.98	4.47	7.49	4.1	6.38	5.7
Barium, Total	7440-39-3	1000	ug/l	31.7 B	17	22.22	19.19	15.4	13.99	16.3	18.03	21.84	18.89	-
Cadmium, Total	7440-43-9	5	ug/l	1.9 B	-	-	-	-	-	-	-	ND	-	-
Chromium, Total	7440-47-3	50	ug/l	27.4	230	30.8	358.3	240	260.6	6.05	48.75	159.4	128.2	123.6
Lead, Total	7439-92-1	25	ug/l	9.7	25	1.98 J	ND	ND	3.38 J	ND	0.35 J	ND	ND	ND
Selenium, Total	7782-49-2	10	ug/l	ND	-	-	-	-	-	-	-	4.98 J	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	2400 J	621	612	446	272	1050	484	1050	406	249	312
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	360	400	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-19A										
				11/8/1999	2/28/2012	4/10/2014	4/28/2015	4/7/2016	4/11/2017	4/17/2018	4/9/2019	4/17/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	0.5	1.71	NA	1.33	1.68	1.60	2.80	2.09	2.24	1.50	1.26
Field pH	NA	6.5 - 8.5	S.U	8.45	7.29	7.60	7.65	7.76	7.51	7.92	7.62	7.75	7.62	7.57
Redox Potential	NA	-	mV	-310	-159	-147	-163	-125	-96	-57	-116	-117	-150	-147
Specific Conductance	NA	-	UMHOS/CM	4,450	2743	1957	2121	2064	2055	1612	2475	1825	2561	2485
Temperature	NA	-	DEG C	13.3	10.4	15.4	13.1	11.6	12.7	9.6	11.2	10.9	13.7	12.0
Turbidity	NA	-	NTU	72	10.6	2.55	3.55	6.0	6.31	49.1	3.0	3.1	2.5	2.8
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	ND	1.4 J	ND	1 J	1.5 J	1 J	ND	1.4 J	ND	ND	1.4 J
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	ND	ND	ND	ND	ND	ND	0.17 J	ND	ND	0.15 J
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	ND	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	ND	ND	ND	ND	ND	1.7 J	ND	ND	ND
Benzene	71-43-2	1	ug/l	1200	ND	34	70	56	40	13	150	25	190 D	150
Bromomethane	74-83-9	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	2.1 D J	ND
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	0.77 J	ND	ND	1.1 J	ND	ND	1.5 J
Cyclohexane	110-82-7	-	ug/l	-	ND	ND	ND	0.47 J	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	2.2 J	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	2	ug/l	ND	0.84 J	ND	0.42 J	ND	0.32 J	0.21 J	0.6 J	0.09 J	0.86 D J	1.3
Xylenes, m/p	179601-23-1	5	ug/l	-	2.6	ND	1.5 J	1.4 J	0.78 J	ND	0.92 J	ND	1.8 D J	0.94 J
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	13 J	2.6	ND	1.5	1.4 J	0.78 J	ND	ND	ND	1.8 J	0.94 J
TOTAL BTEX	NA	NA	ug/l	1213	2.6	34	71.5	57.4	40.78	13	150	25.09	190.86	151.3
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	10	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	10	ug/l	ND	ND	ND	ND	ND	0.08 J	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	ND	ND	ND	ND	0.09 J	ND	ND	0.03 J	0.26	ND
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	20	ug/l	-	0.09 J	ND	0.07 J	ND	0.1	0.04 J	0.05 J	0.04 J	0.26	0.04 J
Acenaphthylene	208-96-8	-	ug/l	ND	ND	ND	ND	ND	0.07 J	ND	ND	ND	0.12	ND
Acetophenone	98-86-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J	ND
Anthracene	120-12-7	50	ug/l	ND	0.07 J	0.07 J	0.09 J	ND	0.04 J	0.09 J	ND	0.03 J	0.48	ND
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	ND	0.16	0.02 J	ND	1.4	0.03 J
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	ND	ND	ND	ND	0.14	ND	ND	1.2	ND
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	0.16 J	ND	ND	ND	ND	0.18	ND	ND	1.7	0.02 J
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	0.09 J	ND	ND	0.7	ND
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	0.08 J	ND	ND	0.5	ND
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	ND	-	-	-	-	-	-	ND
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	4.4 J	ND	ND	6.4	ND	ND	3.6	ND	ND	2.3 J	ND
Caprolactam	34876-18-1	-	ug/l	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	0.16	ND	ND	1.2	ND
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	0.04 J	ND	ND	0.26	ND
Dibenzofuran	132-64-9	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	50	ug/l	ND	0.08 J	ND	ND	ND	ND	0.24	ND	0.02 J	2.2	ND
Fluorene	86-73-7	50	ug/l	ND	ND	ND	ND	ND	0.06 J	0.08 J	ND	0.14	1.2	0.06 J
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	0.07 J	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	0.1	ND	ND	0.84	ND
Naphthalene	91-20-3	10	ug/l	ND	ND	ND	ND	ND	0.08 J	0.05 J	ND	0.39	0.35	0.08 J
Pentachlorophenol	87-86-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	50	ug/l	ND	0.07 J	ND	ND	ND	ND	0.18	0.02 J	0.05 J	1.3	ND
Phenol	108-95-2	1 *	ug/l	19	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	129-00-0	50	ug/l	ND	0.07 J	ND	ND	ND	ND	0.2	ND	0.02 J	1.7	ND
Pyridine	110-86-1	50	ug/l	5.6 J	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	ND	0.54	0.07	0.16	ND	0.44	1.83	0.16	0.72	15.67	0.23
TOTAL Phenolic Compounds	NA	1	ug/l	29	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	5.9 B	7	3.45	3.5	7.1	3.01	2.76	3.42	2.48	4.5	3.16
Barium, Total	7440-39-3	1000	ug/l	35.4 B	24	20.53	25.73	25.2	22.58	20	29.26	22.79	27.97	-
Cadmium, Total	7440-43-9	5	ug/l	1.4 B	-	-	-	-	-	-	-	-	-	-
Chromium, Total	7440-47-3	50	ug/l	4.5 B	ND	2.91	2.93	2.6 J	1.58	8.02	2.11	1.03	2.25	0.58
Lead, Total	7439-92-1	25	ug/l	2.3 B	3 J	0.52 J	0.59 J	ND	0.77 J	10.73	0.42 J	ND	2.12	ND
Selenium, Total	7782-49-2	10	ug/l	2.8 B	-	-	-	-	-	-	-	-	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	500	271	118	173	62	142	97	121	138	107	107
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	6	10 J	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-19B										
				11/8/1999	2/28/2012	4/10/2014	4/28/2015	4/8/2016	4/11/2017	4/17/2018	4/9/2019	4/17/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	0.4	1.53	NA	1.06	0.92	1.44	1.33	1.25	0.81	0.96	1.26
Field pH	NA	6.5 - 8.5	S.U	5.84	5.66	6.22	6.21	6.67	6.99	7.65	6.90	6.95	7.04	7.16
Redox Potential	NA	-	mV	-136	-95	-43	-47	-67	-109	-141	-103	-110	-124	-125
Specific Conductance	NA	-	UMHOS/CM	1,030	7966	5077	4529	4433	3394	3175	4317	4188	4255	4226
Temperature	NA	-	DEG C	13.1	10.4	15.1	13.3	12.0	12.8	8.3	12.2	11.5	15.1	12.5
Turbidity	NA	-	NTU	430	25.7	22.4	30	88	128	8.3	9.4	17.2	6.8	15.5
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	ND	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	71-43-2	1	ug/l	27000	18000	2800 D	390 D	1500 D	5800 D	520	500 D	480	150	460 D
Bromomethane	74-83-9	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	-	ug/l	-	ND	ND	1.3 J	ND	ND	ND	ND	ND	0.35 J	ND
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	2	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J
Xylenes, m/p	179601-23-1	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL BTEX	NA	NA	ug/l	27000	18000	2800	390	1500	5800	520	500	480	150	460
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	73 J	-	19	14	ND	ND	ND	2 J	2 J	3.3 J	1.8 J
2-Chloronaphthalene	91-58-7	10	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	ND	0.09 J	ND	ND	ND	ND	ND	ND	0.12	ND
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	150 J	-	ND	ND	ND	ND	ND	ND	0.52 J	0.66 J	ND
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	200 J	-	2.6 J	2.3 J	ND	ND	ND	ND	2.7 J	2.9 J	1.4 J
Acenaphthene	83-32-9	20	ug/l	-	0.19 J	0.12 J	ND	0.11 J	0.1	0.05 J	0.1	0.06 J	0.08 J	0.08 J
Acenaphthylene	208-96-8	-	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	98-86-2	-	ug/l	-	8.4	ND	ND	ND	ND	ND	ND	0.65 J	1.2 J	1.1 J
Anthracene	120-12-7	50	ug/l	ND	ND	ND	ND	ND	0.05 J	0.04 J	0.04 J	0.03 J	0.05 J	0.04 J
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	0.04 J	ND	ND	ND	ND	0.06 J
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 J
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	ND	ND	ND	ND	0.05 J	ND	ND	ND	ND	0.08 J
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	ND	-	-	-	-	-	-	ND
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	ND	ND	ND	11	ND	ND	3.4	0.93 J	ND	2 J	ND
Caprolactam	34876-18-1	-	ug/l	-	-	ND	ND	ND	ND	ND	ND	9.8 J	ND	ND
Carbazole	86-74-8	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 J
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	50	ug/l	ND	ND	ND	ND	ND	0.07 J	ND	ND	ND	0.02 J	0.1 J
Fluorene	86-73-7	50	ug/l	ND	ND	0.09 J	ND	0.12 J	0.09 J	0.1	0.1	0.06 J	0.14	0.15
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	10	ug/l	ND	0.61	0.52	0.39	ND	0.05 J	ND	ND	ND	0.42	ND
Pentachlorophenol	87-86-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	85-01-8	50	ug/l	ND	ND	0.12 J	0.09 J	ND	0.05 J	ND	ND	ND	ND	0.06 J
Phenol	108-95-2	1 *	ug/l	2100 D	-	1.2 J	0.59 J	ND	ND	ND	ND	1.1 J	0.69 J	ND
Pyrene	129-00-0	50	ug/l	ND	ND	ND	ND	ND	0.06 J	ND	ND	ND	ND	0.08 J
Pyridine	110-86-1	50	ug/l	3200 D	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	ND	0.8	0.94	0.48	0.23	0.56	0.19	0.24	0.15	0.83	0.73
TOTAL Phenolic Compounds	NA	1	ug/l	2523	-	22.8	16.89	ND	ND	ND	2	6.32	7.55	3.2
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	21.9 J	ND	4.76	3.99	18.3	6.41	5.36	5.36	4.86	4.86	11.86
Barium, Total	7440-39-3	1000	ug/l	55.4 B	18	17.7	23.02	19	17.83	17.87	18.57	18.49	18.85	
Cadmium, Total	7440-43-9	5	ug/l	ND	-	-	-	-	-	-	-	-	-	-
Chromium, Total	7440-47-3	50	ug/l	398 J	10	9.21	11.21	7.5 J	9.38	1.48	2.03	2.06	1.12	110.2
Lead, Total	7439-92-1	25	ug/l	54	17	1.57 J	1.3 J	ND	22.76	1.34	1.1	ND	0.48 J	46.8
Selenium, Total	7782-49-2	10	ug/l	ND	-	-	-	-	-	-	-	-	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	820	774	468	568	317	419	266	284	407	331	418
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	3700	290	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-20A										
				11/9/1999	2/28/2012	4/10/2014	4/28/2015	4/8/2016	4/11/2017	4/17/2018	4/9/2019	4/17/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	1.1	2.04	NA	3.7	4.12	2.55	2.4	2.9	1.3	1.74	1.39
Field pH	NA	6.5 - 8.5	S.U	9.02	9.20	9.37	9.47	9.66	9.78	10.09	9.63	9.56	9.38	9.59
Redox Potential	NA	-	mV	416	0	-89	51	194	111	-57	58	12	171	165
Specific Conductance	NA	-	UMHOS/CM	2,130	985.9	926	656	895.2	1183	1193	915	949.5	1377	1081
Temperature	NA	-	DEG C	15.9	10.5	12.5	10.6	10.6	12.0	9.2	9.8	10.1	13.3	10.8
Turbidity	NA	-	NTU	0.1	5.23	1.69	256	7.19	5.08	2.28	2.9	2.6	1.84	9.4
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	ND	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	71-43-2	1	ug/l	33	ND	ND	ND	0.22 J	0.63	ND	0.17 J	0.41 J	0.37 J	ND
Bromomethane	74-83-9	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	2	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, m/p	179601-23-1	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL BTEX	NA	NA	ug/l	34.2	ND	ND	ND	0.22	0.63	ND	0.17	0.41	0.37	ND
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	10	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	20	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	208-96-8	-	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	98-86-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	120-12-7	50	ug/l	ND	0.07 J	0.12 J	ND	0.21	0.08 J	0.1 J	0.07 J	0.04 J	0.02 J	0.06 J
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	ND	-	-	-	-	-	-	ND
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	ND	ND	ND	4.2	ND	ND	4	ND	ND	1.9 J	ND
Caprolactam	34876-18-1	-	ug/l	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	86-74-8	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	86-73-7	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	91-20-3	10	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	87-86-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.35 J
Phenanthrene	85-01-8	50	ug/l	ND	ND	ND	ND	ND	0.03 J	ND	ND	ND	ND	ND
Phenol	108-95-2	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	129-00-0	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02 J	ND
Pyridine	110-86-1	50	ug/l	ND	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	ND	0.07	0.12	ND	0.21	0.11	0.1	0.07	0.04	0.04	0.12
TOTAL Phenolic Compounds	NA	1	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.35
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	ND	5	4.05	5.03	7.2	4.23	3.06	3.8	3.85	3.33	4.29
Barium, Total	7440-39-3	1000	ug/l	27.1 B	21	16.78	12.42	17.1	21.06	20.54	17.26	20.63	28.33	-
Cadmium, Total	7440-43-9	5	ug/l	ND	-	-	-	-	-	-	-	-	-	-
Chromium, Total	7440-47-3	50	ug/l	7.6	10	17.84	23.62	1.9	23.32	15.48	17.06	10.45	3.1	18.8
Lead, Total	7439-92-1	25	ug/l	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	ND
Selenium, Total	7782-49-2	10	ug/l	5	-	-	-	-	-	-	-	-	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	120 J	-	75	29	34	124	88	33	52	43	55
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	ND	20 J	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units	Monitoring Well Location and Sample Date(s)										
				MWS-20B										
				11/9/1999	2/28/2012	4/10/2014	4/28/2015	4/8/2016	4/11/2017	4/17/2018	4/9/2019	4/17/2020	4/27/2021	3/14/2022
Field Measurements														
Dissolved Oxygen	NA	-	MG/L	0.4	2.11	NA	0.85	2.04	1.81	2.01	1.83	0.85	1.27	1.69
Field pH	NA	6.5 - 8.5	S.U	7.29	7.38	7.63	7.63	7.49	7.23	8.48	7.58	7.35	7.88	8.08
Redox Potential	NA	-	mV	204	-150	-170	-180	-118	-58	-196	-167	-129	-197	-204
Specific Conductance	NA	-	UMHOS/CM	2,500	1329	1447	1076	1375	1275	1058	1385	1480	1639	1568
Temperature	NA	-	DEG C	13.2	10.7	13.5	10.9	10.2	12.7	9.6	10.7	11.0	14.2	12.0
Turbidity	NA	-	NTU	146	11.1	26.6	3.92	20.4	9.52	22.2	3.02	20.2	2.03	28.8
Volatile Organics (Method 8260B) (STARS List parameters in blue)														
1,1-Dichloroethane	75-34-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.6	ug/l	ND	ND	2.5	2.2	2.2	2.8	1.4	2.3	1.8	1.6	1.9
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-	ND	-	-	-	ND	-	-	ND	ND	ND
1,4-Diethylbenzene	105-05-5	-	ug/l	-	ND	-	-	-	-	-	-	-	-	-
Acetone	67-64-1	50	ug/l	-	ND	ND	ND	1.7 J	ND	1.6 J	2.1 J	ND	ND	ND
Benzene	71-43-2	1	ug/l	ND	ND	0.28 J	0.63 J	0.32 J	0.5	0.23 J	0.28 J	0.26 J	0.35 J	0.68
Bromomethane	74-83-9	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	60	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	74-87-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	5	ug/l	-	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND	ND
Methyl cyclohexane	108-87-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	75-09-2	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	2	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, m/p	179601-23-1	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, o	95-47-6	5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	5	ug/l	2.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL BTEX	NA	NA	ug/l	2.5	ND	0.28	0.63	0.32	0.5	0.23	0.28	0.26	0.35	0.68
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)														
2,4-Dimethylphenol	105-67-9	50	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	91-58-7	10	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	91-57-6	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	0.04 J	0.03 J	ND
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l	ND	-	ND	ND	1.3 J	ND	ND	ND	ND	ND	ND
Acenaphthene	83-32-9	20	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	208-96-8	-	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	98-86-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	120-12-7	50	ug/l	ND	0.09 J	0.17 J	0.07 J	0.23 J	0.05 J	0.1 J	ND	0.09 J	0.07 J	0.05 J
Benzo(a)anthracene	56-55-3	0.002	ug/l	ND	ND	ND	ND	ND	0.02 J	0.02 J	ND	0.06 J	ND	ND
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l	ND	ND	0.11 J	ND	ND	ND	ND	ND	0.04 J	ND	ND
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	-	ND	0.08 J	ND	ND	ND	ND	ND	0.06 J	0.07 J	ND
Benzo(ghi)perylene	191-24-2	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	0.02 J	ND	ND
Benzoic Acid	65-85-0	-	ug/l	-	-	ND	ND	-	-	-	-	-	-	ND
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l	ND	ND	ND	5.6	ND	ND	ND	ND	ND	1.9 J	ND
Caprolactam	34876-18-1	-	ug/l	-	-	ND	ND	ND	ND	24	ND	ND	ND	ND
Carbazole	86-74-8	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	0.002	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	0.04 J	ND	ND
Dibenzo(a,h)anthracene	53-70-3	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	132-64-9	-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	84-66-2	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	50	ug/l	ND	ND	0.09 J	ND	0.07 J	ND	ND	ND	0.08 J	ND	ND
Fluorene	86-73-7	50	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J	0.02 J	ND
Hexachloroethane	67-72-1	5	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l	-	ND	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND
Naphthalene	91-20-3	10	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07 J	ND
Pentachlorophenol	87-86-5	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	0.31 J	0.33 J
Phenanthrene	85-01-8	50	ug/l	ND	ND	ND	ND	ND	0.02 J	ND	ND	0.05 J	ND	ND
Phenol	108-95-2	1 *	ug/l	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	129-00-0	50	ug/l	ND	ND	0.09 J	ND	0.06 J	ND	ND	ND	0.07 J	ND	ND
Pyridine	110-86-1	50	ug/l	ND	-	-	-	-	-	-	-	-	-	-
TOTAL PAHs	NA	NA	ug/l	ND	0.09	0.54	0.07	0.36	0.09	0.12	ND	0.64	0.26	0.05
TOTAL Phenolic Compounds	NA	1	ug/l	ND	-	ND	ND	1.3	ND	ND	ND	ND	0.31	0.33
Total Metals														
Arsenic, Total	7440-38-2	25	ug/l	3.9 B	7	3.71	3.59	6.6	2.87	2.93	3.2	3.22	3.28	2.93
Barium, Total	7440-39-3	1000	ug/l	54.7 B	31	39.08	24.7	39	33.75	30.93	34.84	56.76	39.29	-
Cadmium, Total	7440-43-9	5	ug/l	ND	-	-	-	-	-	-	-	-	-	-
Chromium, Total	7440-47-3	50	ug/l	37.6	3 J	10.49	1.57	5.3	1.23	3.36	0.59 J	5.36	0.7 J	0.89 J
Lead, Total	7439-92-1	25	ug/l	10.2	ND	4.43	0.14	ND	0.35 J	1.23 J	ND	1.94	ND	ND
Selenium, Total	7782-49-2	10	ug/l	ND	-	-	-	-	-	-	-	-	-	-
General Chemistry														
Cyanide, Total	57-12-5	200	ug/l	44 J	-	47	48	38	68	47	28	51	17	58
Total Recoverable Phenolics (TRP)	NONE	-	ug/l	ND	40	-	-	-	-	-	-	-	-	-



TABLE 6
ATP GROUNDWATER COLLECTION AND PRETREATMENT SYSTEM
GROUNDWATER ANALYTICAL SUMMARY¹

ATP ECM ANNUAL REPORT
TECUMSEH REDEVELOPMENT, INC.

Parameter	CAS No.	GWQS/GV ²	Units
Field Measurements			
Dissolved Oxygen	NA	-	MG/L
Field pH	NA	6.5 - 8.5	S.U
Redox Potential	NA	-	mV
Specific Conductance	NA	-	UMHOS/CM
Temperature	NA	-	DEG C
Turbidity	NA	-	NTU
Volatile Organics (Method 8260B) (STARS List parameters in blue)			
1,1-Dichloroethane	75-34-3	5	ug/l
1,2,4-Trimethylbenzene	95-63-6	5	ug/l
1,2-Dichloroethane	107-06-2	0.6	ug/l
1,3,5-Trimethylbenzene	108-67-8	5	ug/l
1,4-Diethylbenzene	105-05-5	-	ug/l
Acetone	67-64-1	50	ug/l
Benzene	71-43-2	1	ug/l
Bromomethane	74-83-9	5	ug/l
Carbon disulfide	75-15-0	60	ug/l
Chloromethane (Methyl chloride)	74-87-3	5	ug/l
cis-1,2-Dichloroethene	156-59-2	5	ug/l
Cyclohexane	110-82-7	-	ug/l
Ethylbenzene	100-41-4	5	ug/l
Isopropylbenzene	98-82-8	5	ug/l
Methyl cyclohexane	108-87-2	-	ug/l
Methylene chloride	75-09-2	5	ug/l
Tetrachloroethene	127-18-4	5	ug/l
Toluene	108-88-3	5	ug/l
Trichloroethene	79-01-6	5	ug/l
Vinyl chloride	75-01-4	2	ug/l
Xylenes, m/p	179601-23-1	5	ug/l
Xylenes, o	95-47-6	5	ug/l
Xylenes, Total	1330-20-7	5	ug/l
TOTAL BTEX	NA	NA	ug/l
SVOCs (Method 8270C) (BN in black, Acid Extractables in blue and PAHs in red)			
2,4-Dimethylphenol	105-67-9	50	ug/l
2-Chloronaphthalene	91-58-7	10	ug/l
2-Methylnaphthalene	91-57-6	-	ug/l
2-Methylphenol (o-Cresol)	95-48-7	1 *	ug/l
3-Methylphenol (m-Cresol) / 4-Methylphenol (p-Cresol)	108-39-4/106-44-5	1 *	ug/l
Acenaphthene	83-32-9	20	ug/l
Acenaphthylene	208-96-8	-	ug/l
Acetophenone	98-86-2	-	ug/l
Anthracene	120-12-7	50	ug/l
Benzo(a)anthracene	56-55-3	0.002	ug/l
Benzo(a)pyrene	50-32-8	0 (ND)	ug/l
Benzo(b)fluoranthene	205-99-2	0.002	ug/l
Benzo(ghi)perylene	191-24-2	-	ug/l
Benzo(k)fluoranthene	207-08-9	0.002	ug/l
Benzoic Acid	65-85-0	-	ug/l
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/l
Caprolactam	34876-18-1	-	ug/l
Carbazole	86-74-8	-	ug/l
Chrysene	218-01-9	0.002	ug/l
Dibenzo(a,h)anthracene	53-70-3	-	ug/l
Dibenzofuran	132-64-9	-	ug/l
Diethyl phthalate	84-66-2	50	ug/l
Fluoranthene	206-44-0	50	ug/l
Fluorene	86-73-7	50	ug/l
Hexachloroethane	67-72-1	5	ug/l
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	ug/l
Naphthalene	91-20-3	10	ug/l
Pentachlorophenol	87-86-5	1 *	ug/l
Phenanthrene	85-01-8	50	ug/l
Phenol	108-95-2	1 *	ug/l
Pyrene	129-00-0	50	ug/l
Pyridine	110-86-1	50	ug/l
TOTAL PAHs	NA	NA	ug/l
TOTAL Phenolic Compounds	NA	1	ug/l
Total Metals			
Arsenic, Total	7440-38-2	25	ug/l
Barium, Total	7440-39-3	1000	ug/l
Cadmium, Total	7440-43-9	5	ug/l
Chromium, Total	7440-47-3	50	ug/l
Lead, Total	7439-92-1	25	ug/l
Selenium, Total	7782-49-2	10	ug/l
General Chemistry			
Cyanide, Total	57-12-5	200	ug/l
Total Recoverable Phenolics (TRP)	NONE	-	ug/l

Notes:

1. Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
2. NYSDEC Class "GA" Groundwater Quality Standards/Guldance Values (GWQS/GV) as per 6 NYCRR Part 703.
3. Acid extractables for recent groundwater were analyzed via Method 8270 in August 2013.
4. Surrogate recoveries for SVOC Acid Extractables were below acceptance criteria, re-extraction was performed outside holding time of 7 days, but within 14 days for analysis. Therefore, re-extracted results are presented as estimated (J qualified).

Qualifier Key:

B = The analyte was detected above the reporting limit in the associated method blank.

J = Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs)

ND = Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

R = Sample result was rejected by a third party validator.

D = Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

- = Not analyzed for this parameter

* = The general standard of 1.0 ug/L for phenolic compounds was used.

Color Code:

= concentration exceeds the GWQS/GV, but is less than 10 times the GWQS/GV

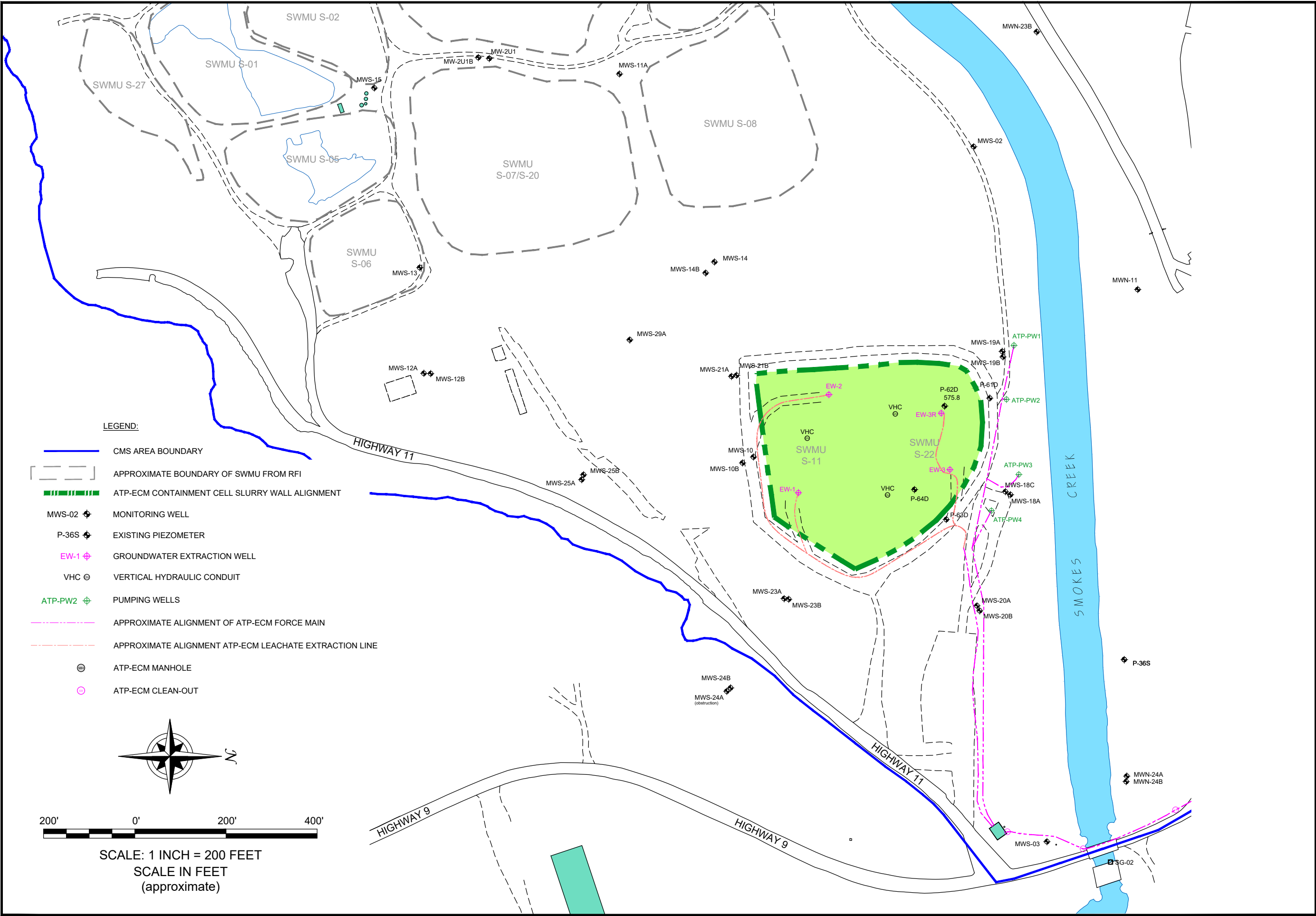
= concentration exceeds 10 times the GWQS/GV, but is less than 100 times the GWQS/GV

= concentration exceeds 100 times the GWQS/GV

FIGURES

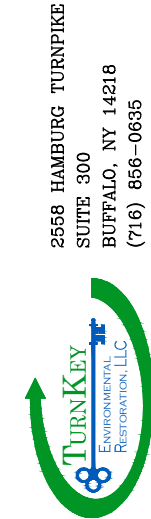
F:\CAD\TurnKey\Tecumseh Redevelopment\Corrective Measures\ATP-ECM\ATP Pretreatment System O&M\Performance Monitoring Reports\2020\Figure 1: ATP SWMU Group & ECM, updated.dwg, 6/7/2021 2:49:39 PM

DATE: FEBRUARY 2021
DRAFTED BY: CMC



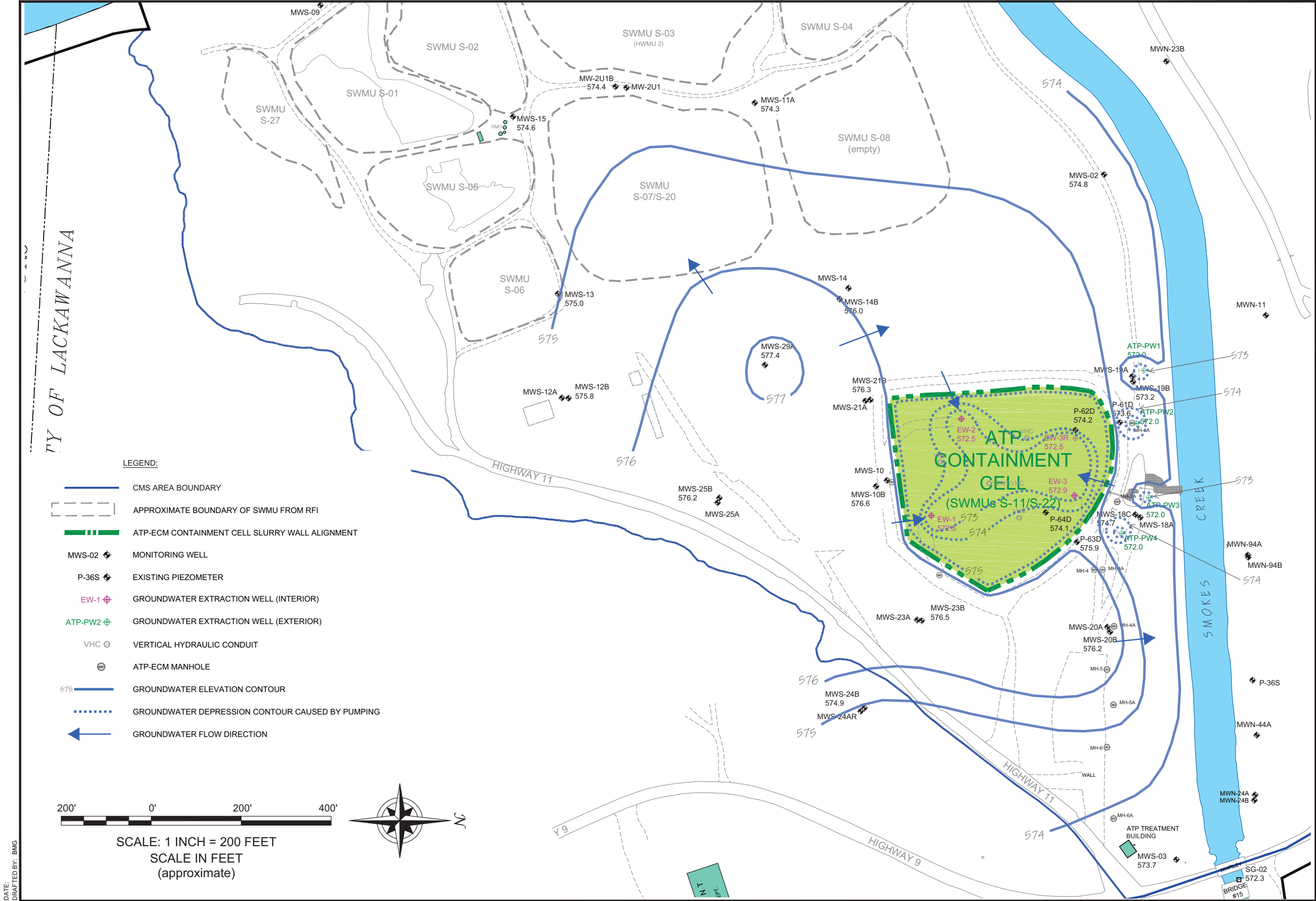
ATP SWMU GROUP & ECM
ANNUAL MONITORING & MAINTENANCE SUMMARY REPORT
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.



JOB NO.:

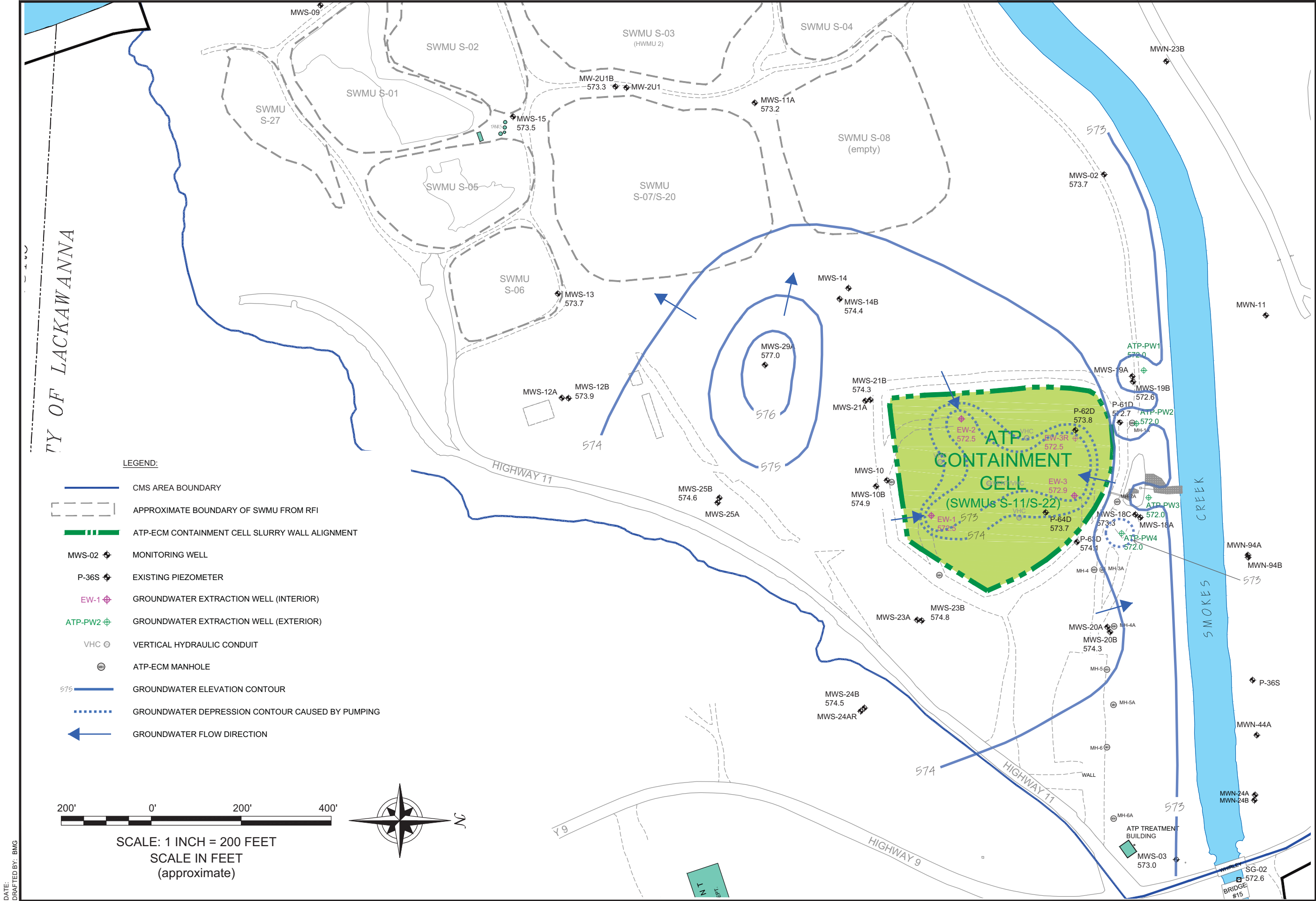
FIGURE 1

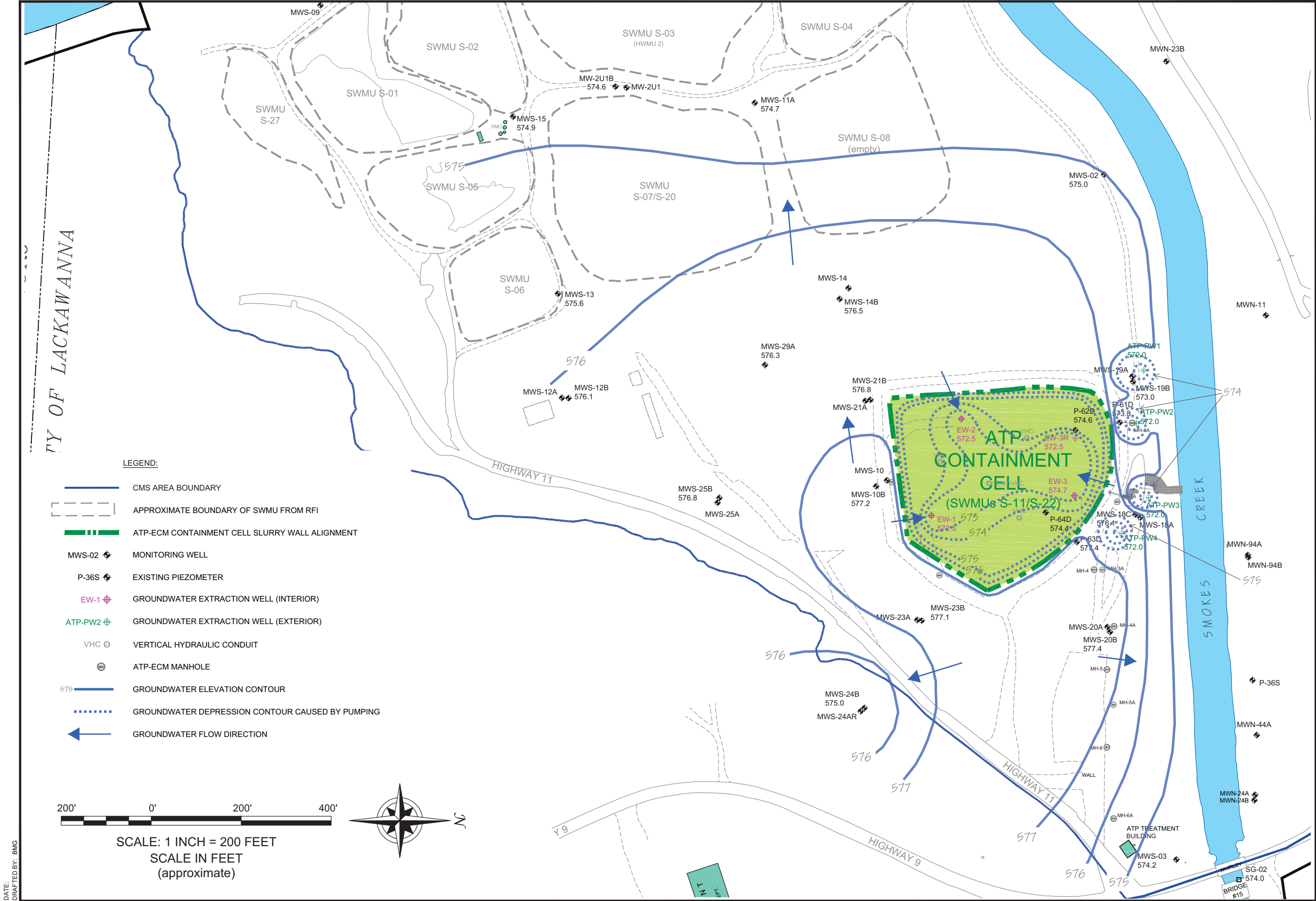


ISOPOTENTIAL MAP - MARCH 2022
ANNUAL MONITORING & MAINTENANCE SUMMARY REPORT
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

FIGURE 2





ATTACHMENT 1

REPORTS TO ERIE COUNTY SEWER DISTRICT NO. 6



Strong Advocates, Effective Solutions, Integrated Implementation

May 2, 2022

Ms. Laura Surdej
Erie County Sewer/Southtown's Sewage Treatment Plant
260 Lehigh Ave
Lackawanna, NY 14218

Re: ECSD No.6 Discharge Permit LA-03 –Semi-Annual Report (October 2021 – April 2022)
Lackawanna, New York

Dear Ms. Surdej:

TurnKey Environmental Restoration, LLC (TurnKey) has prepared this correspondence on behalf of our client, Tecumseh Redevelopment Inc., in accordance with Erie County Sewer District No. 6 (ECSD No. 6) Permit No. LA-03 Revision 1 (dated October 29, 2021), effective July 1, 2021. As required by the permit, this semi-annual report summarizes flow, pH and compliance sample results for the report period from November 1, 2021 through April 30, 2022.

Turnkey personnel recorded totalizer (total gallons) and pH readings weekly during the reporting period. Table 1 summarizes the total volume (gallons), calculated daily flow (gallons per day) and pH readings.

On March 15, 2022, TurnKey personnel collected an effluent (outfall) water sample and submitted the sample under chain-of-custody command to Alpha Analytical for laboratory analysis in accordance with the discharge permit. Table 2 summarizes the analytical results; Attachment 1 contains the Laboratory Analytical Report. As indicated on Table 2 all parameter detections meet corresponding permitted discharge limits.

As of April 29, 2022, a total of 11,587,164 gallons of water has been pre-treated and discharged to the ECSD No.6 collection and conveyance system. The calculated daily flow for the reporting period has ranged between 1,505 and 5,866 GPD, well below permitted flows of up to 45,000 GPD. The pH readings have been between 5.17 and 7.13 standard units, with a permitted operating range of 5 and 12 standard units.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

A handwritten signature in blue ink, appearing to read "Brock Greene".

Brock Greene
Senior Project Environmental Scientist

TABLES



TABLE 1

SUMMARY OF EFFLUENT FLOW AND pH

ATP GROUNDWATER PRE-TREATMENT SYSTEM

**Tecumseh Redevelopment, Inc.
Lackawanna, New York**

Date	Totalizer (gallons)	Total Gallons this event	Calculated GPD (gallons/day)	pH
Permit Limits:			45,000 GPD	5-12
11/5/21	11,331,219	25,777	4,296	5.72
11/12/21	11,338,094	20,220	2,889	5.17
11/19/21	11,346,562	15,343	2,192	5.79
11/26/21	11,355,317	17,223	2,460	5.80
12/3/21	11,363,040	16,478	2,354	5.70
12/10/21	11,371,872	16,555	2,365	5.87
12/17/21	11,382,820	19,780	2,826	5.89
12/23/21	11,392,205	20,333	3,389	5.89
12/30/21	11,402,856	20,036	2,862	5.90
1/7/22	11,415,237	23,032	3,290	5.71
1/14/22	11,427,364	24,508	3,501	5.81
1/21/22	11,439,497	24,260	3,466	5.79
1/28/22	11,451,159	23,795	3,399	5.91
2/4/22	11,461,707	22,210	3,702	6.38
2/11/22	11,471,966	20,807	2,972	6.14
2/18/22	11,483,126	21,419	3,060	5.80
2/25/22	11,495,097	23,131	3,304	5.94
3/4/22	11,506,630	23,504	2,612	6.42
3/11/22	11,517,948	22,851	3,264	6.15
3/18/22	11,528,379	21,749	3,107	6.08
3/25/22	11,538,785	20,837	2,977	5.99
4/1/22	11,549,737	21,358	3,560	6.00
4/8/22	11,560,937	22,152	3,165	6.08
4/15/22	11,571,806	22,069	3,153	6.87
4/23/22	11,582,779	21,842	2,730	6.62
4/29/22	11,587,164	15,358	2,560	6.26



TABLE 2

SUMMARY OF EFFLUENT WATER ANALYTICAL DATA

ATP GROUNDWATER PRE-TREATMENT SYSTEM

Tecumseh Redevelopment, Inc.

Lackawanna, New York

Parameter ¹	Effluent	Discharge Permit Limitations ²
	03/15/22	
Volatile Organic Compounds (VOCs - Method 624) - mg/L		
1,1-Dichloroethane	0.00056 J	--
Benzene	0.029	--
TOTAL VOCs (mg/L)	0.02900	--
Metal Compounds (Method 200.7 Rev 4.4) - mg/L ³		
Barium	0.028	Monitor
Cadmium	0.001 J	0.26
Chromium	0.004 J	4.85
Iron	56.2	Monitor
Lead	0.007 J	0.4
Titanium	0.005 J	Monitor
Zinc	0.009 J	6.35
TOTAL Metals (mg/L)	56.254 J	--
General Chemistry - mg/L		
Cyanide, Total	0.79	Monitor
Ammonia (as N)	40.2	Monitor
Phenolics, Total Recoverable	0.09	Monitor
Sulfate	1590	Monitor
pH	6.5	5-12
Total Toxic Organic Pollutants (TTO) ⁴	0.0290	2.13

Notes:

1. Only those parameters detected are presented in this table; all others were reported as non-detect.
2. Per Erie County Sewer District No. 6 Discharge Permit LA-03 (Oct. 29, 2021)
3. Metals include Ag, As, Ba, Be, Cd, Cr, Cu, Fe, Hg, Ni, Pb, Sb, Se, Ti, and Zn
4. TTO is determined by totaling the reported compound concentrations detected via EPA Method 624.1

Definitions:

- = Limit does not exist for this compound.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.

ATTACHMENT 1

Laboratory Data
(in electronic copy only)



ANALYTICAL REPORT

Lab Number:	L2213691
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Brock Greene
Phone:	(716) 856-0599
Project Name:	ATP PRE-TREATMENT OM&M
Project Number:	T0071-021-222
Report Date:	04/06/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213691-01	SYSTEM EFFLUENT	WATER	1951 HAMBURG TURNPIKE	03/15/22 14:00	03/16/22

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Phenolics was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Volatile Organics by Method 624

The WG1617286-3 LCS recovery, associated with L2213691-01, is above the acceptance criteria for acrolein (162%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 04/06/22

ORGANICS

VOLATILES

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2213691**Project Number:** T0071-021-222**Report Date:** 04/06/22**SAMPLE RESULTS**

Lab ID: L2213691-01
 Client ID: SYSTEM EFFLUENT
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/15/22 14:00
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 03/18/22 09:55
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	0.56	J	ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	29		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1
Trichloroethene	ND		ug/l	1.0	0.33	1

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213691-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/15/22 14:00
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	91		60-140
Fluorobenzene	108		60-140
4-Bromofluorobenzene	93		60-140

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2213691

Project Number: T0071-021-222

Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 128,624.1
 Analytical Date: 03/18/22 07:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1617286-4					
Methylene chloride	ND		ug/l	1.0	0.56
1,1-Dichloroethane	ND		ug/l	1.5	0.40
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
1,2-Dichloropropane	ND		ug/l	3.5	0.46
Dibromochloromethane	ND		ug/l	1.0	0.27
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34
2-Chloroethylvinyl ether	ND		ug/l	10	0.35
Tetrachloroethene	ND		ug/l	1.0	0.26
Chlorobenzene	ND		ug/l	3.5	0.30
1,2-Dichloroethane	ND		ug/l	1.5	0.47
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Bromodichloromethane	ND		ug/l	1.0	0.28
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31
Bromoform	ND		ug/l	1.0	0.22
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
Chloromethane	ND		ug/l	5.0	1.0
Bromomethane	ND		ug/l	5.0	1.2
Vinyl chloride	ND		ug/l	1.0	0.38
Chloroethane	ND		ug/l	2.0	0.37
1,1-Dichloroethene	ND		ug/l	1.0	0.31
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33
Trichloroethene	ND		ug/l	1.0	0.33
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
 Analytical Date: 03/18/22 07:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1617286-4					
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
Acrolein	ND		ug/l	8.0	1.8
Acrylonitrile	ND		ug/l	10	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	90		60-140
Fluorobenzene	105		60-140
4-Bromofluorobenzene	95		60-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1617286-3								
Methylene chloride	125		-		60-140	-		28
1,1-Dichloroethane	115		-		50-150	-		49
Chloroform	110		-		70-135	-		54
Carbon tetrachloride	95		-		70-130	-		41
1,2-Dichloropropane	125		-		35-165	-		55
Dibromochloromethane	85		-		70-135	-		50
1,1,2-Trichloroethane	100		-		70-130	-		45
2-Chloroethylvinyl ether	100		-		1-225	-		71
Tetrachloroethene	95		-		70-130	-		39
Chlorobenzene	120		-		65-135	-		53
1,2-Dichloroethane	95		-		70-130	-		49
1,1,1-Trichloroethane	95		-		70-130	-		36
Bromodichloromethane	90		-		65-135	-		56
trans-1,3-Dichloropropene	95		-		50-150	-		86
cis-1,3-Dichloropropene	110		-		25-175	-		58
Bromoform	80		-		70-130	-		42
1,1,2,2-Tetrachloroethane	110		-		60-140	-		61
Benzene	130		-		65-135	-		61
Toluene	110		-		70-130	-		41
Ethylbenzene	130		-		60-140	-		63
Chloromethane	125		-		1-205	-		60
Bromomethane	110		-		15-185	-		61
Vinyl chloride	100		-		5-195	-		66

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1617286-3								
Chloroethane	130		-		40-160	-		78
1,1-Dichloroethene	130		-		50-150	-		32
trans-1,2-Dichloroethene	125		-		70-130	-		45
Trichloroethene	115		-		65-135	-		48
1,2-Dichlorobenzene	110		-		65-135	-		57
1,3-Dichlorobenzene	110		-		70-130	-		43
1,4-Dichlorobenzene	110		-		65-135	-		57
Acrolein	162	Q	-		60-140	-		30
Acrylonitrile	120		-		60-140	-		60

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	93				60-140
Fluorobenzene	109				60-140
4-Bromofluorobenzene	95				60-140

METALS

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2213691**Project Number:** T0071-021-222**Report Date:** 04/06/22**SAMPLE RESULTS**

Lab ID: L2213691-01

Date Collected: 03/15/22 14:00

Client ID: SYSTEM EFFLUENT

Date Received: 03/16/22

Sample Location: 1951 HAMBURG TURNPIKE

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.050	0.007	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Arsenic, Total	ND		mg/l	0.005	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Barium, Total	0.028		mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Beryllium, Total	ND		mg/l	0.005	0.001	1	03/24/22 18:59	03/29/22 20:54	EPA 3005A	19,200.7	MC
Cadmium, Total	0.001	J	mg/l	0.005	0.001	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Chromium, Total	0.004	J	mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Copper, Total	ND		mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Iron, Total	56.2		mg/l	0.050	0.009	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Lead, Total	0.007	J	mg/l	0.010	0.003	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/24/22 20:12	03/26/22 09:01	EPA 245.1	3,245.1	ZK
Nickel, Total	ND		mg/l	0.025	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Selenium, Total	ND		mg/l	0.010	0.004	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Silver, Total	ND		mg/l	0.007	0.003	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Titanium, Total	0.005	J	mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC
Zinc, Total	0.009	J	mg/l	0.050	0.002	1	03/24/22 18:59	03/29/22 17:04	EPA 3005A	19,200.7	MC



Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2213691

Project Number: T0071-021-222

Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1618995-1										
Antimony, Total	ND		mg/l	0.050	0.007	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Arsenic, Total	ND		mg/l	0.005	0.002	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Barium, Total	ND		mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Beryllium, Total	ND		mg/l	0.005	0.001	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Cadmium, Total	ND		mg/l	0.005	0.001	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Chromium, Total	ND		mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Copper, Total	ND		mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 17:06	19,200.7	MC
Iron, Total	ND		mg/l	0.050	0.009	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Lead, Total	ND		mg/l	0.010	0.003	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Nickel, Total	ND		mg/l	0.025	0.002	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Selenium, Total	ND		mg/l	0.010	0.004	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Silver, Total	ND		mg/l	0.007	0.003	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Titanium, Total	ND		mg/l	0.010	0.002	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD
Zinc, Total	ND		mg/l	0.050	0.002	1	03/24/22 18:59	03/29/22 09:08	19,200.7	GD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1618998-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/24/22 20:12	03/26/22 08:24	3,245.1	ZK

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1618995-2								
Antimony, Total	96		-		85-115	-		
Arsenic, Total	108		-		85-115	-		
Barium, Total	100		-		85-115	-		
Beryllium, Total	100		-		85-115	-		
Cadmium, Total	102		-		85-115	-		
Chromium, Total	98		-		85-115	-		
Copper, Total	98		-		85-115	-		
Iron, Total	100		-		85-115	-		
Lead, Total	101		-		85-115	-		
Nickel, Total	96		-		85-115	-		
Selenium, Total	108		-		85-115	-		
Silver, Total	102		-		85-115	-		
Titanium, Total	101		-		85-115	-		
Zinc, Total	102		-		85-115	-		

Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1618998-2

Mercury, Total	97		-		85-115	-		
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Matrix Spike Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2213691

Project Number: T0071-021-222

Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618995-3 QC Sample: L2200024-49 Client ID: MS Sample												
Antimony, Total	ND	5	4.48	90		-	-		75-125	-		20
Arsenic, Total	0.162	1.2	1.59	119		-	-		75-125	-		20
Barium, Total	ND	20	19.9	100		-	-		75-125	-		20
Beryllium, Total	ND	0.5	0.484	97		-	-		75-125	-		20
Cadmium, Total	ND	0.53	0.534	101		-	-		75-125	-		20
Chromium, Total	0.149	2	2.10	98		-	-		75-125	-		20
Copper, Total	0.114	2.5	2.77	106		-	-		75-125	-		20
Iron, Total	0.271J	10	9.86	99		-	-		75-125	-		20
Lead, Total	ND	5.3	4.94	93		-	-		75-125	-		20
Nickel, Total	0.024J	5	4.48	90		-	-		75-125	-		20
Selenium, Total	ND	1.2	1.40	117		-	-		75-125	-		20
Silver, Total	ND	0.5	0.560	112		-	-		75-125	-		20
Titanium, Total	ND	10	10.2	102		-	-		75-125	-		20
Zinc, Total	9.99	5	14.9	98		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618995-7 QC Sample: L2213395-02 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.567	113	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.115J	0	Q	-	75-125	-	20
Barium, Total	0.640	2	3.36	136	Q	-	75-125	-	20
Beryllium, Total	ND	0.05	0.065	129	Q	-	75-125	-	20
Cadmium, Total	0.246	0.053	0.352	200	Q	-	75-125	-	20
Chromium, Total	33.9	0.2	39.6	2850	Q	-	75-125	-	20
Copper, Total	0.597	0.25	1.02	169	Q	-	75-125	-	20
Iron, Total	10500	1	11500	100000	Q	-	75-125	-	20
Lead, Total	0.384	0.53	0.992	115	-	-	75-125	-	20
Nickel, Total	53.4	0.5	64.5	2220	Q	-	75-125	-	20
Selenium, Total	0.025J	0.12	0.136	113	-	-	75-125	-	20
Silver, Total	0.022J	0.05	0.093	185	Q	-	75-125	-	20
Titanium, Total	0.027J	1	1.31	131	Q	-	75-125	-	20
Zinc, Total	12.9	0.5	15.9	600	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618998-3 QC Sample: L2214809-01 Client ID: MS Sample									
Mercury, Total	0.00087J	0.025	0.02490	100	-	-	70-130	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618995-4 QC Sample: L2200024-49 Client ID: DUP Sample						
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.162	0.170	mg/l	5		20
Barium, Total	ND	ND	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.149	0.149	mg/l	0		20
Copper, Total	0.114	0.109	mg/l	4		20
Iron, Total	0.271J	0.278J	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.024J	0.027J	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Titanium, Total	ND	ND	mg/l	NC		20
Zinc, Total	9.99	10.0	mg/l	0		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618995-8 QC Sample: L2213395-02 Client ID: DUP Sample					
Barium, Total	0.640	0.714	mg/l	11	20
Cadmium, Total	0.246	0.283	mg/l	14	20
Chromium, Total	33.9	36.8	mg/l	8	20
Lead, Total	0.384	0.453	mg/l	16	20
Selenium, Total	0.025J	ND	mg/l	NC	20
Silver, Total	0.022J	0.025J	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618995-8 QC Sample: L2213395-02 Client ID: DUP Sample					
Arsenic, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1618998-4 QC Sample: L2214809-01 Client ID: DUP Sample					
Mercury, Total	0.00087J	0.00087J	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213691-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/15/22 14:00
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.790		mg/l	0.010	0.003	2	03/24/22 13:05	03/25/22 09:42	121,4500CN-CE	CS
pH (H)	6.5		SU	-	NA	1	-	03/17/22 20:24	121,4500H+-B	AS
Nitrogen, Ammonia	40.2		mg/l	0.750	0.240	10	03/29/22 11:13	03/29/22 22:42	44,350.1	AT
Anions by Ion Chromatography - Westborough Lab										
Sulfate	1590		mg/l	100	45.4	100	-	03/26/22 02:39	44,300.0	AT



Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2213691

Project Number: T0071-021-222

Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1619231-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 08:51	121,4500CN-CE	CS
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG1619983-1										
Sulfate	ND		mg/l	1.00	0.454	1	-	03/25/22 16:49	44,300.0	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1620952-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	03/29/22 11:13	03/29/22 22:36	44,350.1	AT

Lab Control Sample Analysis**Batch Quality Control****Project Name:** ATP PRE-TREATMENT OM&M**Project Number:** T0071-021-222**Lab Number:** L2213691**Report Date:** 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1616988-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1619231-2								
Cyanide, Total	102		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG1619983-2								
Sulfate	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1620952-2								
Nitrogen, Ammonia	106		-		90-110	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2213691

Project Number: T0071-021-222

Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1619231-3 QC Sample: L2213242-01 Client ID: MS Sample												
Cyanide, Total	0.005	0.2	0.196	95		-	-		90-110	-		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1619983-3 QC Sample: L2213795-02 Client ID: MS Sample												
Sulfate	12.5	8	19.3	85	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1620952-4 QC Sample: L2213820-05 Client ID: MS Sample												
Nitrogen, Ammonia	3.38	4	7.64	106		-	-		90-110	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-021-222

Lab Number: L2213691

Report Date: 04/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1616988-2 QC Sample: L2213558-01 Client ID: DUP Sample						
pH	6.9	6.8	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1619231-4 QC Sample: L2213242-03 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1619983-4 QC Sample: L2213795-02 Client ID: DUP Sample						
Sulfate	12.5	12.2	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1620952-3 QC Sample: L2213820-05 Client ID: DUP Sample						
Nitrogen, Ammonia	3.38	3.60	mg/l	6		20

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2213691**Project Number:** T0071-021-222**Report Date:** 04/06/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213691-01A	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		624.1(3)
L2213691-01B	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		624.1(3)
L2213691-01C	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		624.1(3)
L2213691-01D	Plastic 250ml unpreserved	A	7	7	4.2	Y	Absent		SO4-300(28),PH-4500(.01)
L2213691-01E	Plastic 500ml H2SO4 preserved	A	<2	<2	4.2	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),AG-UI(180),ZN-UI(180),TI-UI(180),FE-UI(180),SE-UI(180),HG-U(28),CD-UI(180),CR-UI(180),BE-UI(180),PB-UI(180),CU-UI(180),AS-UI(180)
L2213691-01F	Plastic 250ml NaOH preserved	A	>12	>12	4.2	Y	Absent		TCN-4500(14)
L2213691-01G	Amber 1000ml H2SO4 preserved	A	<2	<2	4.2	Y	Absent		SUB-PHENOL()
L2213691-01H	Plastic 500ml H2SO4 preserved	A	<2	<2	4.2	Y	Absent		NH3-350(28)

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-021-222

Lab Number: L2213691
Report Date: 04/06/22

REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

3/17/22

U2213691

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Monday, March 28, 2022

Attn: Candace Fox
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Project ID: L2213691
SDG ID: GCK89836
Sample ID#s: CK89836

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

March 28, 2022

SDG I.D.: GCK89836

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance. Compounds that are detected above MDL but below RL are qualified with a J flag.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

March 28, 2022

SDG I.D.: GCK89836

Project ID: L2213691

Client Id	Lab Id	Matrix
SYSTEM EFFLUENT	CK89836	WATER



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

March 28, 2022

FOR: Attn: Candace Fox
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information

Matrix: WATER
Location Code: ALPHA
Rush Request: Standard
P.O.#: L2213691

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time

03/15/22 14:00
03/18/22 14:01

Laboratory Data

SDG ID: GCK89836
Phoenix ID: CK89836

Project ID: L2213691
Client ID: SYSTEM EFFLUENT

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenolics	0.090	0.015	0.005	mg/L	1	03/28/22	MSF	E420.4

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

March 28, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

March 28, 2022

QA/QC Data

SDG I.D.: GCK89836

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 616943 (mg/L), QC Sample No: CK89846 (CK89836)													
Phenolics	BRL	0.015	<0.015	0.019	NC	104			100			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis/Shiller, Laboratory Director
March 28, 2022

Monday, March 28, 2022
Criteria: None
State: NY

Sample Criteria Exceedances Report
GCK89836 - ALPHA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

March 28, 2022

SDG I.D.: GCK89836

The samples in this delivery group were received at 2.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

2.1. wa

		Subcontract Chain of Custody Phoenix Environmental Laboratories 587 East Middle Turnpike Manchester, CT 06040		Alpha Job Number L2213691	
Client Information Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716-427-5223 Email: cfox@alphaab.com		Project Information Project Location: NY Project Manager: Candace Fox Turnaround & Deliverables Information Due Date: Deliverables:		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria:	
Project Specific Requirements and/or Report Requirements					
Reference following Alpha Job Number on final report/deliverables: L2213691		Report to include Method Blank, LCS/LCSD:			
Additional Comments: Send all results/reports to subreports@alphaab.com NYS 420.1 Report to the MDL					
Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
89836	SYSTEM EFFLUENT	03-15-22 14:00	WATER	Phenol	
Relinquished By: <i>James H. Lee</i>		Date/Time: <i>3/18/22</i>	Received By: <i>MB</i>	Date/Time: <i>3/18/22 08:00</i>	
<i>MB</i>		<i>3/18/22 13:38</i>	<i>MB</i>	<i>3/18/22 14:01</i>	
Form No: AL_subcoc					



Strong Advocates, Effective Solutions, Integrated Implementation

October 31, 2022

Ms. Laura Surdej
Erie County Sewer/Southtown's Sewage Treatment Plant
260 Lehigh Ave
Lackawanna, NY 14218

Re: ECSD No.6 Discharge Permit LA-03, Rev. 1 (10/27/21)
Semi-Annual Report (May 2022 – October 2022)
Lackawanna, New York

Dear Ms. Surdej:

TurnKey Environmental Restoration, LLC (TurnKey) has prepared this correspondence on behalf of our client, Tecumseh Redevelopment Inc., in accordance with Erie County Sewer District No. 6 (ECSD No. 6) Permit No. LA-03, Rev. 1 (10/27/21). As required by the permit, this semi-annual report summarizes flow, pH and compliance sample results for the report period from May 1, 2022 through October 31, 2022.

Turnkey personnel recorded totalizer (total gallons) and pH readings weekly during the reporting period. Table 1 summarizes the total volume (gallons), calculated daily flow (gallons per day) and pH readings.

On October 3, 2022 TurnKey personnel collected an effluent (outfall) water sample and submitted the sample under chain-of-custody command to Alpha Analytical for laboratory analysis in accordance with the discharge permit. Table 2 summarizes the analytical results; Attachment 1 contains the Laboratory Analytical Report. As indicated on Table 2 all parameter detections meet corresponding permitted discharge limits.

As of October 28, 2022 a total of 11,874,253 gallons of water has been pre-treated and discharged to the ECSD No.6 collection and conveyance system. The calculated daily flow for the reporting period has ranged between 18 and 2,174 GPD, well below permitted flows of up to 45,000 GPD. The flow meter was subjected to third party annual calibration on May 5, 2022. The calibration certificate is presented as Attachment 2. The pH readings have been between 5.72 and 7.10 standard units, with a permitted operating range of 5 and 12 standard units.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

A handwritten signature in blue ink, appearing to read "Brock Greene".

Brock Greene
Senior Project Environmental Scientist

TABLES



TABLE 1

SUMMARY OF EFFLUENT FLOW AND pH

ATP GROUNDWATER PRE-TREATMENT SYSTEM

**Tecumseh Redevelopment, Inc.
Lackawanna, New York**

Date	Totalizer (gallons)	Total Gallons this event	Calculated GPD (gallons/day)	pH
Permit Limits:			45,000 GPD	5-12
4/29/22	11,587,164	4,385	731	6.26
5/6/22	11,597,737	10,573	1,510	5.81
5/13/22	11,610,915	13,178	1,883	5.93
5/20/22	11,624,703	13,788	1,970	6.14
5/27/22	11,638,019	13,316	1,902	5.76
6/3/22	11,651,062	13,043	2,174	6.40
6/10/22	11,663,671	12,609	1,801	5.77
6/17/22	11,677,612	13,941	1,992	7.10
6/24/22	11,690,900	13,288	1,898	6.60
7/1/22	11,700,390	9,490	1,356	6.43
7/9/22	11,713,102	12,712	1,589	6.20
7/15/22	11,725,547	12,445	2,074	6.16
7/22/22	11,734,687	9,140	1,306	6.23
7/29/22	11,746,641	11,954	1,708	5.90
8/5/22	11,758,379	11,738	1,956	5.72
8/12/22	11,770,089	11,710	1,673	6.07
8/19/22	11,781,136	11,047	1,578	6.14
8/26/22	11,791,603	10,467	1,495	6.10
9/2/22	11,791,711	108	18	6.02
9/9/22	11,802,395	10,684	1,526	6.03
9/16/22	11,813,016	10,621	1,517	5.92
9/23/22	11,822,901	9,885	1,412	5.80
9/30/22	11,833,171	10,270	1,467	5.78
10/7/22	11,843,410	10,239	1,463	5.84
10/14/22	11,853,737	10,327	1,475	5.80
10/21/22	11,865,298	11,561	1,652	6.04
10/28/22	11,874,253	8,955	1,279	5.80



TABLE 2

SUMMARY OF EFFLUENT WATER ANALYTICAL DATA

ATP GROUNDWATER PRE-TREATMENT SYSTEM

Tecumseh Redevelopment, Inc.

Lackawanna, New York

Parameter ¹	Effluent	Discharge Permit Limitations ²
	10/03/22	
Volatile Organic Compounds (VOCs - Method 624) - mg/L		
Benzene	0.00041 J	--
Bromomethane	0.0013 J	--
TOTAL VOCs (mg/L)	0.00171 J	--
Semi-Volatile Organic Compounds (SVOCs - Method 625) - mg/L		
2,4-Dimethylphenol	0.00267 J	--
Phenol	0.00274 J	--
Naphthalene	0.00101 J	--
TOTAL SVOCs (mg/L)	0.00642 J	--
Polychlorinated Biphenyls (PCBs) (Method 608)- mg/L		
All Compounds Non-Detect		--
Organochlorine Pesticide Compounds (Method 608) - mg/L		
All Compounds Non-Detect		--
Metal Compounds (Method 200.7 Rev 4.4) - mg/L ³		
Arsenic	0.0068	0.18
Barium	0.032	Monitor
Chromium	0.0028 J	4.85
Iron	68.3	Monitor
Lead	0.0046 J	0.4
Titanium	0.0053 J	Monitor
Zinc	0.005 J	6.35
TOTAL Metals (mg/L)	68.3469 J	Monitor
General Chemistry - mg/L		
Cyanide, Total	0.572	Monitor
Ammonia (as N)	40.5	Monitor
Phenolics, Total Recoverable	0.041	Monitor
Sulfate	1790	Monitor
Oil & Grease	1.6 J	100
pH ⁴	6.6	5-12
Total Toxic Organic Pollutants (TTO) ⁴	0.01	2.13

Notes:

1. Only those parameters detected are presented in this table; all others were reported as non-detect.
2. Per the Erie County Sewer District No. 6 Discharge Permit LA-03 Rev. 1 (10/27/21)
3. Metals include Ag, As, Ba, Be, Cd, Cr, Fe, Cu, Hg, Ni, Pb, Sb, Se, Ti, and Zn
4. TTO is determined by totaling the reported compound concentrations detected via EPA Methods 608, 624, & 625.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

ATTACHMENT 1

Laboratory Data
(in electronic copy only)



ANALYTICAL REPORT

Lab Number:	L2254446
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Brock Greene
Phone:	(716) 856-0599
Project Name:	ATP PRE-TREATMENT OM&M
Project Number:	T0071-022-222
Report Date:	10/25/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2254446-01	SYSTEM EFFLUENT	WATER	1951 HAMBURG TURNPIKE	10/03/22 10:45	10/03/22

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Phenolics was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

PCBs

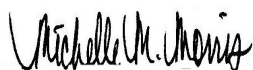
The WG1702375-1 Method Blank, associated with L2254446-01, has a concentration above the reporting limit for Aroclor 1254. Since the associated sample concentrations are non-detect to the RL, no corrective action is required.

Pesticides

L2254446-01: The internal standard (IS) response for 1-bromo-2-nitrobenzene (212%) was above the acceptance criteria on column B; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 10/25/22

ORGANICS

VOLATILES

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2254446**Project Number:** T0071-022-222**Report Date:** 10/25/22**SAMPLE RESULTS**

Lab ID: L2254446-01
 Client ID: SYSTEM EFFLUENT
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
 Date Received: 10/03/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 128,624.1
 Analytical Date: 10/04/22 16:27
 Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	ND		ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	0.41	J	ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	1.3	J	ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1
Trichloroethene	ND		ug/l	1.0	0.33	1

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

SAMPLE RESULTS

Lab ID: L2254446-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
Date Received: 10/03/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	90		60-140
4-Bromofluorobenzene	97		60-140

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Analytical Method: 128,624.1
 Analytical Date: 10/04/22 15:51
 Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1695895-4					
Methylene chloride	ND		ug/l	1.0	0.56
1,1-Dichloroethane	ND		ug/l	1.5	0.40
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
1,2-Dichloropropane	ND		ug/l	3.5	0.46
Dibromochloromethane	ND		ug/l	1.0	0.27
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34
2-Chloroethylvinyl ether	ND		ug/l	10	0.35
Tetrachloroethene	ND		ug/l	1.0	0.26
Chlorobenzene	ND		ug/l	3.5	0.30
1,2-Dichloroethane	ND		ug/l	1.5	0.47
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Bromodichloromethane	ND		ug/l	1.0	0.28
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31
Bromoform	ND		ug/l	1.0	0.22
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
Chloromethane	ND		ug/l	5.0	1.0
Bromomethane	1.7	J	ug/l	5.0	1.2
Vinyl chloride	ND		ug/l	1.0	0.38
Chloroethane	ND		ug/l	2.0	0.37
1,1-Dichloroethene	ND		ug/l	1.0	0.31
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33
Trichloroethene	ND		ug/l	1.0	0.33
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Analytical Method: 128,624.1
 Analytical Date: 10/04/22 15:51
 Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1695895-4					
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
Acrolein	ND		ug/l	8.0	1.8
Acrylonitrile	ND		ug/l	10	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	97		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	97		60-140

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1695895-3								
Methylene chloride	105		-		60-140	-		28
1,1-Dichloroethane	105		-		50-150	-		49
Chloroform	110		-		70-135	-		54
Carbon tetrachloride	110		-		70-130	-		41
1,2-Dichloropropane	90		-		35-165	-		55
Dibromochloromethane	80		-		70-135	-		50
1,1,2-Trichloroethane	90		-		70-130	-		45
2-Chloroethylvinyl ether	90		-		1-225	-		71
Tetrachloroethene	100		-		70-130	-		39
Chlorobenzene	95		-		65-135	-		53
1,2-Dichloroethane	115		-		70-130	-		49
1,1,1-Trichloroethane	110		-		70-130	-		36
Bromodichloromethane	85		-		65-135	-		56
trans-1,3-Dichloropropene	85		-		50-150	-		86
cis-1,3-Dichloropropene	90		-		25-175	-		58
Bromoform	75		-		70-130	-		42
1,1,2,2-Tetrachloroethane	95		-		60-140	-		61
Benzene	120		-		65-135	-		61
Toluene	105		-		70-130	-		41
Ethylbenzene	105		-		60-140	-		63
Chloromethane	110		-		1-205	-		60
Bromomethane	120		-		15-185	-		61
Vinyl chloride	165		-		5-195	-		66

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-022-222

Lab Number: L2254446

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1695895-3								
Chloroethane	140		-		40-160	-		78
1,1-Dichloroethene	120		-		50-150	-		32
trans-1,2-Dichloroethene	115		-		70-130	-		45
Trichloroethene	90		-		65-135	-		48
1,2-Dichlorobenzene	85		-		65-135	-		57
1,3-Dichlorobenzene	85		-		70-130	-		43
1,4-Dichlorobenzene	85		-		65-135	-		57
Acrolein	110		-		60-140	-		30
Acrylonitrile	102		-		60-140	-		60

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	99				60-140
Fluorobenzene	112				60-140
4-Bromofluorobenzene	100				60-140

SEMIVOLATILES

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

SAMPLE RESULTS

Lab ID: L2254446-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
Date Received: 10/03/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 10/08/22 09:16
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 10/05/22 19:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.00	0.407	1
Benzidine ¹	ND		ug/l	20.0	12.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49	1
Hexachlorobenzene	ND		ug/l	2.00	0.952	1
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600	1
2-Chloronaphthalene	ND		ug/l	2.00	0.319	1
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457	1
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636	1
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631	1
Fluoranthene	ND		ug/l	2.00	0.736	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371	1
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585	1
Hexachlorobutadiene	ND		ug/l	2.00	0.921	1
Hexachlorocyclopentadiene ¹	ND		ug/l	10.0	1.36	1
Hexachloroethane	ND		ug/l	2.00	0.973	1
Isophorone	ND		ug/l	5.00	0.546	1
Naphthalene	1.01	J	ug/l	2.00	0.896	1
Nitrobenzene	ND		ug/l	2.00	0.788	1
NDPA/DPA ¹	ND		ug/l	2.00	0.783	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70	1
Butyl benzyl phthalate	ND		ug/l	5.00	0.670	1
Di-n-butylphthalate	ND		ug/l	5.00	0.631	1
Di-n-octylphthalate	ND		ug/l	5.00	0.633	1
Diethyl phthalate	ND		ug/l	5.00	0.717	1
Dimethyl phthalate	ND		ug/l	5.00	1.40	1

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

SAMPLE RESULTS

Lab ID: L2254446-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
Date Received: 10/03/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/l	2.00	0.665	1
Benzo(a)pyrene	ND		ug/l	2.00	0.610	1
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741	1
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739	1
Chrysene	ND		ug/l	2.00	0.668	1
Acenaphthylene	ND		ug/l	2.00	0.930	1
Anthracene	ND		ug/l	2.00	0.791	1
Benzo(ghi)perylene	ND		ug/l	2.00	0.672	1
Fluorene	ND		ug/l	2.00	0.927	1
Phenanthrene	ND		ug/l	2.00	0.818	1
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633	1
Pyrene	ND		ug/l	2.00	0.728	1
n-Nitrosodimethylamine ¹	ND		ug/l	2.00	0.407	1
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607	1
p-Chloro-m-cresol ¹	ND		ug/l	2.00	0.533	1
2-Chlorophenol	ND		ug/l	2.00	0.513	1
2,4-Dichlorophenol	ND		ug/l	5.00	0.554	1
2,4-Dimethylphenol	2.67	J	ug/l	5.00	0.851	1
2-Nitrophenol	ND		ug/l	5.00	0.604	1
4-Nitrophenol	ND		ug/l	10.0	0.834	1
2,4-Dinitrophenol	ND		ug/l	20.0	1.21	1
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20	1
Pentachlorophenol	ND		ug/l	5.00	0.622	1
Phenol	2.74	J	ug/l	5.00	0.262	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-87
Phenol-d6	36		16-65
Nitrobenzene-d5	86		42-122
2-Fluorobiphenyl	89		46-121
2,4,6-Tribromophenol	104		45-128
4-Terphenyl-d14	100		47-138

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 10/05/22 11:49
Analyst: SZ

Extraction Method: EPA 625.1
Extraction Date: 10/05/22 00:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1695507-1					
Acenaphthene	ND		ug/l	2.00	0.407
Benzidine ¹	ND		ug/l	20.0	12.1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49
Hexachlorobenzene	ND		ug/l	2.00	0.952
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600
2-Chloronaphthalene	ND		ug/l	2.00	0.319
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631
Fluoranthene	ND		ug/l	2.00	0.736
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585
Hexachlorobutadiene	ND		ug/l	2.00	0.921
Hexachlorocyclopentadiene ¹	ND		ug/l	10.0	1.36
Hexachloroethane	ND		ug/l	2.00	0.973
Isophorone	ND		ug/l	5.00	0.546
Naphthalene	ND		ug/l	2.00	0.896
Nitrobenzene	ND		ug/l	2.00	0.788
NDPA/DPA ¹	ND		ug/l	2.00	0.783
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70
Butyl benzyl phthalate	ND		ug/l	5.00	0.670
Di-n-butylphthalate	ND		ug/l	5.00	0.631
Di-n-octylphthalate	ND		ug/l	5.00	0.633
Diethyl phthalate	ND		ug/l	5.00	0.717
Dimethyl phthalate	ND		ug/l	5.00	1.40
Benzo(a)anthracene	ND		ug/l	2.00	0.665

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Analytical Method: 129,625.1
 Analytical Date: 10/05/22 11:49
 Analyst: SZ

Extraction Method: EPA 625.1
 Extraction Date: 10/05/22 00:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1695507-1					
Benzo(a)pyrene	ND		ug/l	2.00	0.610
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739
Chrysene	ND		ug/l	2.00	0.668
Acenaphthylene	ND		ug/l	2.00	0.930
Anthracene	ND		ug/l	2.00	0.791
Benzo(ghi)perylene	ND		ug/l	2.00	0.672
Fluorene	ND		ug/l	2.00	0.927
Phenanthrene	ND		ug/l	2.00	0.818
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633
Pyrene	ND		ug/l	2.00	0.728
n-Nitrosodimethylamine ¹	ND		ug/l	2.00	0.407
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607
p-Chloro-m-cresol ¹	ND		ug/l	2.00	0.533
2-Chlorophenol	ND		ug/l	2.00	0.513
2,4-Dichlorophenol	ND		ug/l	5.00	0.554
2,4-Dimethylphenol	ND		ug/l	5.00	0.851
2-Nitrophenol	ND		ug/l	5.00	0.604
4-Nitrophenol	ND		ug/l	10.0	0.834
2,4-Dinitrophenol	ND		ug/l	20.0	1.21
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20
Pentachlorophenol	ND		ug/l	5.00	0.622
Phenol	ND		ug/l	5.00	0.262

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
 Analytical Date: 10/05/22 11:49
 Analyst: SZ

Extraction Method: EPA 625.1
 Extraction Date: 10/05/22 00:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1695507-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-87
Phenol-d6	40		16-65
Nitrobenzene-d5	74		42-122
2-Fluorobiphenyl	80		46-121
2,4,6-Tribromophenol	85		45-128
4-Terphenyl-d14	97		47-138

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1695507-3								
Acenaphthene	83		-		60-132	-		48
Benzidine ¹	22		-		0-70	-		30
1,2,4-Trichlorobenzene	74		-		57-130	-		50
Hexachlorobenzene	91		-		8-142	-		55
Bis(2-chloroethyl)ether	81		-		43-126	-		108
2-Chloronaphthalene	84		-		65-120	-		24
3,3'-Dichlorobenzidine	39		-		8-213	-		108
2,4-Dinitrotoluene	88		-		48-127	-		42
2,6-Dinitrotoluene	94		-		68-137	-		48
Fluoranthene	91		-		43-121	-		66
4-Chlorophenyl phenyl ether	88		-		38-145	-		61
4-Bromophenyl phenyl ether	90		-		65-120	-		43
Bis(2-chloroisopropyl)ether	76		-		63-139	-		76
Bis(2-chloroethoxy)methane	86		-		49-165	-		54
Hexachlorobutadiene	69		-		38-120	-		62
Hexachlorocyclopentadiene ¹	68		-		7-118	-		35
Hexachloroethane	68		-		55-120	-		52
Isophorone	87		-		47-180	-		93
Naphthalene	78		-		36-120	-		65
Nitrobenzene	106		-		54-158	-		62
NDPA/DPA ¹	90		-		45-112	-		36
n-Nitrosodi-n-propylamine	86		-		14-198	-		87
Bis(2-ethylhexyl)phthalate	94		-		29-137	-		82

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-022-222

Lab Number: L2254446

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1695507-3								
Butyl benzyl phthalate	93		-		1-140	-		60
Di-n-butylphthalate	94		-		8-120	-		47
Di-n-octylphthalate	94		-		19-132	-		69
Diethyl phthalate	93		-		1-120	-		100
Dimethyl phthalate	95		-		1-120	-		183
Benzo(a)anthracene	86		-		42-133	-		53
Benzo(a)pyrene	94		-		32-148	-		72
Benzo(b)fluoranthene	84		-		42-140	-		71
Benzo(k)fluoranthene	90		-		25-146	-		63
Chrysene	87		-		44-140	-		87
Acenaphthylene	94		-		54-126	-		74
Anthracene	91		-		43-120	-		66
Benzo(ghi)perylene	86		-		1-195	-		97
Fluorene	86		-		70-120	-		38
Phenanthrene	86		-		65-120	-		39
Dibenzo(a,h)anthracene	87		-		1-200	-		126
Indeno(1,2,3-cd)pyrene	89		-		1-151	-		99
Pyrene	90		-		70-120	-		49
n-Nitrosodimethylamine ¹	50		-		15-68	-		17
2,4,6-Trichlorophenol	90		-		52-129	-		58
p-Chloro-m-cresol ¹	92		-		68-130	-		73
2-Chlorophenol	83		-		36-120	-		61
2,4-Dichlorophenol	90		-		53-122	-		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1695507-3								
2,4-Dimethylphenol	100		-		42-120	-		58
2-Nitrophenol	84		-		45-167	-		55
4-Nitrophenol	54		-		13-129	-		131
2,4-Dinitrophenol	81		-		1-173	-		132
4,6-Dinitro-o-cresol	90		-		56-130	-		203
Pentachlorophenol	82		-		38-152	-		86
Phenol	50		-		17-120	-		64

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69				25-87
Phenol-d6	53				16-65
Nitrobenzene-d5	89				42-122
2-Fluorobiphenyl	91				46-121
2,4,6-Tribromophenol	94				45-128
4-Terphenyl-d14	97				47-138

PCBS

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

SAMPLE RESULTS

Lab ID: L2254446-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
Date Received: 10/03/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 10/22/22 10:16
Analyst: JM

Extraction Method: EPA 608.3
Extraction Date: 10/21/22 07:58
Cleanup Method: EPA 3665A
Cleanup Date: 10/21/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/22/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.050	0.008	1	A
Aroclor 1221	ND		ug/l	0.050	0.011	1	A
Aroclor 1232	ND		ug/l	0.050	0.023	1	A
Aroclor 1242	ND		ug/l	0.050	0.018	1	A
Aroclor 1248	ND		ug/l	0.050	0.023	1	A
Aroclor 1254	ND		ug/l	0.050	0.008	1	A
Aroclor 1260	ND		ug/l	0.050	0.017	1	A
PCBs, Total	ND		ug/l	0.050	0.008	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		37-123	A
Decachlorobiphenyl	80		38-114	A
2,4,5,6-Tetrachloro-m-xylene	171	Q	37-123	B
Decachlorobiphenyl	68		38-114	B

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Analytical Method: 127,608.3
 Analytical Date: 10/22/22 08:07
 Analyst: JM

Extraction Method: EPA 608.3
 Extraction Date: 10/21/22 07:58
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/21/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/22/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1702375-1						
Aroclor 1016	ND		ug/l	0.050	0.008	A
Aroclor 1221	ND		ug/l	0.050	0.011	A
Aroclor 1232	ND		ug/l	0.050	0.023	A
Aroclor 1242	ND		ug/l	0.050	0.018	A
Aroclor 1248	ND		ug/l	0.050	0.023	A
Aroclor 1254	0.080		ug/l	0.050	0.008	A
Aroclor 1260	ND		ug/l	0.050	0.017	A
PCBs, Total	0.080		ug/l	0.050	0.008	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		37-123	A
Decachlorobiphenyl	108		38-114	A
2,4,5,6-Tetrachloro-m-xylene	86		37-123	B
Decachlorobiphenyl	107		38-114	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1702375-2									
Aroclor 1016	99		-		50-140	-		36	A
Aroclor 1260	102		-		8-140	-		38	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83				37-123	A
Decachlorobiphenyl	114				38-114	A
2,4,5,6-Tetrachloro-m-xylene	85				37-123	B
Decachlorobiphenyl	117	Q			38-114	B

PESTICIDES

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

SAMPLE RESULTS

Lab ID: L2254446-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
Date Received: 10/03/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 127,608.3
Analytical Date: 10/10/22 11:50
Analyst: AKM

Extraction Method: EPA 608.3
Extraction Date: 10/06/22 08:42
Cleanup Method: EPA 3620B
Cleanup Date: 10/07/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.003	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.009	1	A
Heptachlor	ND		ug/l	0.020	0.005	1	A
Aldrin	ND		ug/l	0.020	0.005	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.007	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin aldehyde	ND		ug/l	0.040	0.017	1	A
Endrin ketone ¹	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.003	1	A
4,4'-DDE	ND		ug/l	0.040	0.003	1	A
4,4'-DDD	ND		ug/l	0.040	0.008	1	A
4,4'-DDT	ND		ug/l	0.040	0.008	1	A
Endosulfan I	ND		ug/l	0.020	0.008	1	A
Endosulfan II	ND		ug/l	0.040	0.003	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.017	1	A
Methoxychlor ¹	ND		ug/l	0.100	0.008	1	A
Toxaphene	ND		ug/l	0.400	0.126	1	A
Chlordane	ND		ug/l	0.200	0.042	1	A
cis-Chlordane ¹	ND		ug/l	0.020	0.005	1	A
trans-Chlordane ¹	ND		ug/l	0.020	0.008	1	A

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2254446**Project Number:** T0071-022-222**Report Date:** 10/25/22**SAMPLE RESULTS**

Lab ID: L2254446-01

Date Collected: 10/03/22 10:45

Client ID: SYSTEM EFFLUENT

Date Received: 10/03/22

Sample Location: 1951 HAMBURG TURNPIKE

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	134	Q	47-124	A
Decachlorobiphenyl	58		32-167	A
2,4,5,6-Tetrachloro-m-xylene	51		47-124	B
Decachlorobiphenyl	35		32-167	B

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Analytical Method: 127,608.3
 Analytical Date: 10/06/22 15:32
 Analyst: MMG

Extraction Method: EPA 608.3
 Extraction Date: 10/05/22 19:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/06/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1695969-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.003	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.009	A
Heptachlor	ND		ug/l	0.020	0.005	A
Aldrin	ND		ug/l	0.020	0.005	A
Heptachlor epoxide	ND		ug/l	0.020	0.007	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin aldehyde	ND		ug/l	0.040	0.017	A
Endrin ketone ¹	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.003	A
4,4'-DDE	ND		ug/l	0.040	0.003	A
4,4'-DDD	ND		ug/l	0.040	0.008	A
4,4'-DDT	ND		ug/l	0.040	0.008	A
Endosulfan I	ND		ug/l	0.020	0.008	A
Endosulfan II	ND		ug/l	0.040	0.003	A
Endosulfan sulfate	ND		ug/l	0.040	0.017	A
Methoxychlor ¹	ND		ug/l	0.100	0.008	A
Toxaphene	ND		ug/l	0.400	0.126	A
Chlordane	ND		ug/l	0.200	0.042	A
cis-Chlordane ¹	ND		ug/l	0.020	0.005	A
trans-Chlordane ¹	ND		ug/l	0.020	0.008	A

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 127,608.3
 Analytical Date: 10/06/22 15:32
 Analyst: MMG

Extraction Method: EPA 608.3
 Extraction Date: 10/05/22 19:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/06/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1695969-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		47-124	A
Decachlorobiphenyl	97		32-167	A
2,4,5,6-Tetrachloro-m-xylene	63		47-124	B
Decachlorobiphenyl	86		32-167	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-022-222

Lab Number: L2254446

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1695969-2									
Delta-BHC	25		-		19-140	-		52	A
Lindane	72		-		32-140	-		39	A
Alpha-BHC	69		-		37-140	-		36	A
Beta-BHC	72		-		17-147	-		44	A
Heptachlor	84		-		34-140	-		43	A
Aldrin	66		-		42-140	-		35	A
Heptachlor epoxide	64		-		37-142	-		26	A
Endrin	76		-		30-147	-		48	A
Endrin aldehyde	67		-		30-150	-		30	A
Endrin ketone ¹	94		-		30-150	-		30	A
Dieldrin	79		-		36-146	-		49	A
4,4'-DDE	73		-		30-145	-		35	A
4,4'-DDD	81		-		31-141	-		39	A
4,4'-DDT	102		-		25-160	-		42	A
Endosulfan I	72		-		45-153	-		28	A
Endosulfan II	78		-		1-202	-		53	A
Endosulfan sulfate	58		-		26-144	-		38	A
Methoxychlor ¹	117		-		30-150	-		30	A
cis-Chlordane ¹	75		-		45-140	-		35	A
trans-Chlordane ¹	91		-		45-140	-		35	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1695969-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73				47-124	A
Decachlorobiphenyl	88				32-167	A
2,4,5,6-Tetrachloro-m-xylene	57				47-124	B
Decachlorobiphenyl	78				32-167	B

METALS

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2254446**Project Number:** T0071-022-222**Report Date:** 10/25/22**SAMPLE RESULTS**

Lab ID: L2254446-01

Date Collected: 10/03/22 10:45

Client ID: SYSTEM EFFLUENT

Date Received: 10/03/22

Sample Location: 1951 HAMBURG TURNPIKE

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Arsenic, Total	0.0068		mg/l	0.0050	0.0019	1	10/04/22 14:37	10/21/22 14:13	EPA 3005A	19,200.7	DMB
Barium, Total	0.0320		mg/l	0.0100	0.0021	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Chromium, Total	0.0028	J	mg/l	0.0100	0.0021	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Iron, Total	68.3		mg/l	0.0500	0.0090	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Lead, Total	0.0046	J	mg/l	0.0100	0.0027	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/05/22 10:23	10/05/22 20:16	EPA 245.1	3,245.1	ZK
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Titanium, Total	0.0053	J	mg/l	0.0100	0.0018	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB
Zinc, Total	0.0050	J	mg/l	0.0500	0.0021	1	10/04/22 14:37	10/20/22 18:10	EPA 3005A	19,200.7	DMB



Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1695315-1									
Antimony, Total	ND	mg/l	0.0500	0.0071	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Arsenic, Total	ND	mg/l	0.0050	0.0019	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Barium, Total	ND	mg/l	0.0100	0.0021	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Beryllium, Total	ND	mg/l	0.0050	0.0009	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Cadmium, Total	ND	mg/l	0.0050	0.0010	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Chromium, Total	ND	mg/l	0.0100	0.0021	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Copper, Total	ND	mg/l	0.0100	0.0022	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Iron, Total	ND	mg/l	0.0500	0.0090	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Lead, Total	ND	mg/l	0.0100	0.0027	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Nickel, Total	ND	mg/l	0.0250	0.0024	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Selenium, Total	ND	mg/l	0.0100	0.0035	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Silver, Total	ND	mg/l	0.0070	0.0028	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Titanium, Total	ND	mg/l	0.0100	0.0018	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL
Zinc, Total	ND	mg/l	0.0500	0.0021	1	10/04/22 14:37	10/05/22 21:59	19,200.7	DHL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1695555-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	10/05/22 10:23	10/05/22 19:26	3,245.1	ZK

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-022-222

Lab Number: L2254446

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1695315-2								
Antimony, Total	101		-		85-115	-		
Arsenic, Total	108		-		85-115	-		
Barium, Total	91		-		85-115	-		
Beryllium, Total	95		-		85-115	-		
Cadmium, Total	102		-		85-115	-		
Chromium, Total	100		-		85-115	-		
Copper, Total	97		-		85-115	-		
Iron, Total	94		-		85-115	-		
Lead, Total	98		-		85-115	-		
Nickel, Total	95		-		85-115	-		
Selenium, Total	106		-		85-115	-		
Silver, Total	98		-		85-115	-		
Titanium, Total	98		-		85-115	-		
Zinc, Total	98		-		85-115	-		

Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1695555-2

Mercury, Total	103		-		85-115	-		
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Matrix Spike Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1695315-3 QC Sample: L2254515-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.558	112		-	-		75-125	-		20
Arsenic, Total	0.003J	0.12	0.144	120		-	-		75-125	-		20
Barium, Total	0.010	2	1.90	94		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.050	100		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.056	106		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.203	102		-	-		75-125	-		20
Copper, Total	ND	0.25	0.252	101		-	-		75-125	-		20
Iron, Total	0.604	1	1.08	48	Q	-	-		75-125	-		20
Lead, Total	ND	0.53	0.535	101		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.489	98		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.138	115		-	-		75-125	-		20
Silver, Total	ND	0.05	0.050	100		-	-		75-125	-		20
Titanium, Total	0.017	1	1.03	101		-	-		75-125	-		20
Zinc, Total	0.017J	0.5	0.537	107		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1695315-7 QC Sample: L2254335-01 Client ID: MS Sample									
Antimony, Total	ND	0.5	0.520	104	-	-	75-125	-	20
Arsenic, Total	0.008	0.12	0.139	109	-	-	75-125	-	20
Barium, Total	0.012	2	1.90	94	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.049	98	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.053	100	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.191	96	-	-	75-125	-	20
Copper, Total	0.007J	0.25	0.246	98	-	-	75-125	-	20
Iron, Total	0.129	1	1.09	96	-	-	75-125	-	20
Lead, Total	ND	0.53	0.506	95	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.464	93	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.129	108	-	-	75-125	-	20
Silver, Total	ND	0.05	0.048	95	-	-	75-125	-	20
Titanium, Total	ND	1	0.964	96	-	-	75-125	-	20
Zinc, Total	0.049J	0.5	0.539	108	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1695555-15 QC Sample: L2254363-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00491	98	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1695555-3 QC Sample: L2254064-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00487	98	-	-	70-130	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1695555-16 QC Sample: L2254363-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1695555-4 QC Sample: L2254064-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

SAMPLE RESULTS

Lab ID: L2254446-01
Client ID: SYSTEM EFFLUENT
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 10/03/22 10:45
Date Received: 10/03/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.572		mg/l	0.010	0.003	2	10/06/22 07:10	10/06/22 12:28	121,4500CN-CE	CRS
pH (H)	6.6		SU	-	NA	1	-	10/05/22 06:15	121,4500H+-B	GB
Nitrogen, Ammonia	40.5		mg/l	1.50	0.480	20	10/23/22 02:50	10/24/22 10:31	44,350.1	KEP
Oil & Grease, Hem-Grav	1.6	J	mg/l	2.0	0.46	1	10/24/22 10:30	10/24/22 14:27	140,1664B	JM
Anions by Ion Chromatography - Westborough Lab										
Sulfate	1790		mg/l	100	45.4	100	-	10/20/22 22:01	44,300.0	AT,



Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1696011-1										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	10/06/22 07:10	10/06/22 11:33	121,4500CN-CE	CRS
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG1702250-1										
Sulfate	0.514	J	mg/l	1.00	0.454	1	-	10/20/22 20:37	44,300.0	AT,
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1702945-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	10/23/22 02:50	10/24/22 10:16	44,350.1	KEP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1703349-1										
Oil & Grease, Hem-Grav	ND		mg/l	2.0	0.46	1	10/24/22 10:30	10/24/22 14:27	140,1664B	JM

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-022-222

Lab Number: L2254446

Report Date: 10/25/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1695529-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1696011-2								
Cyanide, Total	109		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG1702250-2								
Sulfate	107		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1702945-2								
Nitrogen, Ammonia	103		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1703349-2								
Oil & Grease, Hem-Grav	88		-		78-114	-		18

Matrix Spike Analysis

Batch Quality Control

Project Name: ATP PRE-TREATMENT OM&M

Lab Number: L2254446

Project Number: T0071-022-222

Report Date: 10/25/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1696011-3 QC Sample: L2254164-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.214	107		-	-		90-110	-		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1702250-3 QC Sample: L2257759-01 Client ID: MS Sample												
Sulfate	23.5	8	31.2	96		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1702945-4 QC Sample: L2255747-02 Client ID: MS Sample												
Nitrogen, Ammonia	0.318	4	4.38	102		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1703349-4 QC Sample: L2253988-27 Client ID: MS Sample												
Oil & Grease, Hem-Grav	1.0J	39.6	33	84		-	-		78-114	-		18

Lab Duplicate Analysis *Batch Quality Control*

Project Name: ATP PRE-TREATMENT OM&M

Project Number: T0071-022-222

Lab Number: L2254446

Report Date: 10/25/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1695529-2 QC Sample: L2253661-02 Client ID: DUP Sample						
pH	7.2	7.2	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1696011-4 QC Sample: L2254164-04 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1702250-4 QC Sample: L2257759-01 Client ID: DUP Sample						
Sulfate	23.5	23.5	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1702945-3 QC Sample: L2255747-02 Client ID: DUP Sample						
Nitrogen, Ammonia	0.318	0.308	mg/l	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1703349-3 QC Sample: L2253988-26 Client ID: DUP Sample						
Oil & Grease, Hem-Grav	0.46J	ND	mg/l	NC		18

Project Name: ATP PRE-TREATMENT OM&M**Lab Number:** L2254446**Project Number:** T0071-022-222**Report Date:** 10/25/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2254446-01A	Vial Na2S2O3 preserved	A	NA		2.8	Y	Absent		624.1(3)
L2254446-01B	Vial Na2S2O3 preserved	A	NA		2.8	Y	Absent		624.1(3)
L2254446-01C	Vial Na2S2O3 preserved	A	NA		2.8	Y	Absent		624.1(3)
L2254446-01D	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-4500(14)
L2254446-01E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),AG-UI(180),ZN-UI(180),TI-UI(180),SE-UI(180),FE-UI(180),HG-UI(180),CD-UI(180),CR-UI(180),BE-UI(180),AS-UI(180),PB-UI(180),CU-UI(180)
L2254446-01F	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		-
L2254446-01G	Plastic 250ml unpreserved	A	7	7	2.8	Y	Absent		SO4-300(28),PH-4500(.01)
L2254446-01H	Plastic 500ml H2SO4 preserved	A	<2	<2	2.8	Y	Absent		NH3-350(28)
L2254446-01J	Amber 950ml H2SO4 preserved	A	<4	<4	2.8	Y	Absent		SUB-TPHENOL(28)
L2254446-01K	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		NYPGB-608-2L(365)
L2254446-01L	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		NYPGB-608-2L(365)
L2254446-01M	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		PESTICIDE-608.3(7)
L2254446-01N	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		PESTICIDE-608.3(7)
L2254446-01O	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		625.1(7)
L2254446-01P	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		625.1(7)
L2254446-01Q	Amber 1000ml HCl preserved	A	NA		2.8	Y	Absent		NY-OG-1664-LOW(28)
L2254446-01R	Amber 1000ml HCl preserved	A	NA		2.8	Y	Absent		NY-OG-1664-LOW(28)
L2254446-01S	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		NYPGB-608-2L(365)
L2254446-01T	Amber 1000ml Na2S2O3	A	7	7	2.8	Y	Absent		NYPGB-608-2L(365)

Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP PRE-TREATMENT OM&M
Project Number: T0071-022-222

Lab Number: L2254446
Report Date: 10/25/22

REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 127 Method 608.3: Organochlorine Pesticides and PCBs by GC/HSD, EPA 821-R-16-009, December 2016.
- 128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.
- 129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 ALPHA ANALYTICAL Westborough, MA 01561 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 1 of 2	Date Rec'd in Lab 10/4/22	ALPHA Job # L2254446									
		Project Information Project Name: ATP Pre-treatment OM&M Project Location: 1951 Hamburg Turnpike Project #: T0071-022-222 (Use Project name as Project #) ☐	Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☒ Other	Billing Information ☒ Same as Client Info PO #										
Client Information Client: Benchmark Environmental Address: 2558 Hamburg Turnpike, Ste300 Buffalo, NY 14218 Phone: 716-856-0599 Fax: <i>bygreene</i> Email: <i>forbes@benchmarkturnkey.com</i>	Project Manager: Candace Fox ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:	Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☒ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: NA											
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Total Metals: Ag, As, Ba, Be, Cd, Cr, Cu, Fe, Hg, Pb, Ni, Sb, Se, Ti, Zn PCB has an RL of 65 ppt Please specify Metals or TAL.			ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	624 PP List	Metals, Total	Ammonia	608 Pest/PCB/625 PP List	Phenolics	O&G	Cyanide	pH, Sulfate	Sample Specific Comments	Total Bottles: 18
54446-01	System Effluent	10-3-22 1045	Water	BMG	x	x	x	x	x	x	x	x		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type Preservative	Relinquished By: <i>Brook Greene</i> <i>Jim AL AAL</i>	Date/Time 10-3-22/1120 10/3/22/15:40	Received By: <i>Jim AL AAL</i>	Date/Time 10/3/22 14:55 10/4/22 0010	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.						



Thursday, October 06, 2022

Attn: Candace Fox
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Project ID: L2254446
SDG ID: GCM48549
Sample ID#s: CM48549

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

October 06, 2022

SDG I.D.: GCM48549

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance. Compounds that are detected above MDL but below RL are qualified with a J flag.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

October 06, 2022

SDG I.D.: GCM48549

Project ID: L2254446

Client Id	Lab Id	Matrix
SYSTEM EFFLUENT	CM48549	WATER



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 06, 2022

FOR: Attn: Candace Fox
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information

Matrix: WATER
Location Code: ALPHA
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/03/22
10/04/22

Time

10:45
13:10

Laboratory Data

SDG ID: GCM48549
Phoenix ID: CM48549

Project ID: L2254446
Client ID: SYSTEM EFFLUENT

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenolics	0.041	0.015	0.005	mg/L	1	10/06/22	MSF	E420.4

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

October 06, 2022

Reviewed and Released by: Anil Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

October 06, 2022

QA/QC Data

SDG I.D.: GCM48549

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 645625 (mg/L), QC Sample No: CM47500 (CM48549)													
Phenolics	BRL	0.015	0.012 J	0.014 J	NC	105			89.8			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis/Shiller, Laboratory Director
October 06, 2022

Sample Criteria Exceedances Report

GCM48549 - ALPHA

Thursday, October 06, 2022
Criteria: None
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



NY Temperature Narration

October 06, 2022

SDG I.D.: GCM48549

The samples in this delivery group were received at 1.8°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

1.8' min

		Subcontract Chain of Custody Phoenix Environmental Laboratories 587 East Middle Turnpike Manchester, CT 06040		Alpha Job Number L2254446	
Client Information Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716-427-5223 Email: cfox@alphalab.com		Project Information Project Location: NY Project Manager: Candace Fox Turnaround & Deliverables Information Due Date: Deliverables:		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria:	
Project Specific Requirements and/or Report Requirements Reference following Alpha Job Number on final report/deliverables: L2254446 Report to include Method Blank, LCS/LCSD: Additional Comments: Send all results/reports to subreports@alphalab.com Metod 420.1; REPORT TO MDL					
Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
48549	SYSTEM EFFLUENT	10-03-22 10:45	WATER	Total Phenols	
				Red-1 x amber	
Relinquished By:		Date/Time:		Received By:	
		10/4/22		10/4/22 1000	
		10/4/22 1310		10/4/22 1310	
Form No: AL_subcoc					

ATTACHMENT 2

Flow Meter Calibration Certificate

Cold Spring Environmental

3248 Buffalo Rd., Varysburg, N.Y. 14167
Ph: 716-863-7052

May 11, 2022

Benchmark & Turnkey
Att. Brock Greene
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

Ref: Flow Meter Calibration

Dear Mr. Greene,

Calibration Date: May 5, 2022
Site location: Pretreatment Building
Equipment Model: Signet GF 8550
Equipment type: Closed Pipe impellor
Equipment S/N: 61009161010
Measuring device: 2 inch pipe
Output type: none
Totalizer multiplier: 1 gallon

Initial Readings:

Meter Flow Rate	4.1 GPM	
Totalizer	7 gallons	Water meter 10 gallons
Difference	30%	

After Adjustment:

Readings:		
Meter Flow Rate	4.1 GPM	
Totalizer	10 gallons	Water meter 10 gallons
Difference	0%	

Please contact me with any questions.

Sincerely,

Jon Wolak

716-863-7052
jonwolak@yahoo.com

ATTACHMENT 2

GROUNDWATER MONITORING LABORATORY ANALYTICAL DATA PACKAGE



ANALYTICAL REPORT

Lab Number:	L2213694
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Brock Greene
Phone:	(716) 856-0599
Project Name:	ATP GWS
Project Number:	T0071-021-222
Report Date:	04/06/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2213694-01	MWS-02	WATER	1951 HAMBURG TURNPIKE	03/14/22 13:15	03/16/22
L2213694-02	MWS-18A	WATER	1951 HAMBURG TURNPIKE	03/14/22 14:20	03/16/22
L2213694-03	MWS-18C	WATER	1951 HAMBURG TURNPIKE	03/14/22 14:40	03/16/22
L2213694-04	MWS-19A	WATER	1951 HAMBURG TURNPIKE	03/14/22 11:10	03/16/22
L2213694-05	MWS-19B	WATER	1951 HAMBURG TURNPIKE	03/14/22 14:40	03/16/22
L2213694-06	MWS-20A	WATER	1951 HAMBURG TURNPIKE	03/14/22 10:25	03/16/22
L2213694-07	MWS-20B	WATER	1951 HAMBURG TURNPIKE	03/14/22 11:20	03/16/22
L2213694-08	TRIP BLANK	WATER	1951 HAMBURG TURNPIKE	03/14/22 00:00	03/16/22

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2213694-08: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was not analyzed.

Semivolatile Organics

L2213694-01: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Semivolatile Organics by SIM

L2213694-01: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Sebastian Corbin

Title: Technical Director/Representative

Date: 04/06/22

ORGANICS

VOLATILES

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 15:58
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.5	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.32	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	1.6		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	9.2		ug/l	0.50	0.16	1
Toluene	1.0	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.72		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	0.90	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	4.7	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	110		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02 **D**
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 17:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	62	18.	25
1,1-Dichloroethane	ND		ug/l	62	18.	25
Chloroform	ND		ug/l	62	18.	25
Carbon tetrachloride	ND		ug/l	12	3.4	25
1,2-Dichloropropane	ND		ug/l	25	3.4	25
Dibromochloromethane	ND		ug/l	12	3.7	25
1,1,2-Trichloroethane	ND		ug/l	38	12.	25
Tetrachloroethene	ND		ug/l	12	4.5	25
Chlorobenzene	ND		ug/l	62	18.	25
Trichlorofluoromethane	ND		ug/l	62	18.	25
1,2-Dichloroethane	ND		ug/l	12	3.3	25
1,1,1-Trichloroethane	ND		ug/l	62	18.	25
Bromodichloromethane	ND		ug/l	12	4.8	25
trans-1,3-Dichloropropene	ND		ug/l	12	4.1	25
cis-1,3-Dichloropropene	ND		ug/l	12	3.6	25
Bromoform	ND		ug/l	50	16.	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	4.2	25
Benzene	3800		ug/l	12	4.0	25
Toluene	ND		ug/l	62	18.	25
Ethylbenzene	ND		ug/l	62	18.	25
Chloromethane	ND		ug/l	62	18.	25
Bromomethane	ND		ug/l	62	18.	25
Vinyl chloride	ND		ug/l	25	1.8	25
Chloroethane	ND		ug/l	62	18.	25
1,1-Dichloroethene	ND		ug/l	12	4.2	25
trans-1,2-Dichloroethene	ND		ug/l	62	18.	25
Trichloroethene	ND		ug/l	12	4.4	25
1,2-Dichlorobenzene	ND		ug/l	62	18.	25

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02 **D**
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	62	18.	25
1,4-Dichlorobenzene	ND		ug/l	62	18.	25
Methyl tert butyl ether	ND		ug/l	62	18.	25
p/m-Xylene	ND		ug/l	62	18.	25
o-Xylene	ND		ug/l	62	18.	25
cis-1,2-Dichloroethene	ND		ug/l	62	18.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	ND		ug/l	120	36.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	48.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Isopropylbenzene	ND		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
Methyl Acetate	ND		ug/l	50	5.8	25
Cyclohexane	ND		ug/l	250	6.8	25
1,4-Dioxane	ND		ug/l	6200	1500	25
Freon-113	ND		ug/l	62	18.	25
Methyl cyclohexane	ND		ug/l	250	9.9	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	101		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03 **D**
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/25/22 00:54
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	1700		ug/l	10	3.2	20
Toluene	67		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03 **D**
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	49	J	ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	320		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	1200	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 17:12
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.4	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	0.15	J	ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	150		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	1.3		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.94	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.5	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	102		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05 D
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 18:01
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	ND		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	460		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	0.44	J	ug/l	2.5	0.18	2.5
Chloroethane	3.9	J	ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Trichloroethene	ND		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05 **D**
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	99		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 16:22
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	0.20	J	ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	120		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/24/22 16:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	1.9		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.68		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	118		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 09:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-07 Batch: WG1619519-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/22 09:48
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-07 Batch: WG1619519-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 09:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-07 Batch: WG1619519-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	121		70-130

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 17:47
Analyst: KDU

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1620287-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 17:47
Analyst: KDU

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1620287-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/24/22 17:47
Analyst: KDU

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1620287-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	115		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-07 Batch: WG1619519-3 WG1619519-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	120		120		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	110		99		63-130	11		20
1,1,2-Trichloroethane	92		91		70-130	1		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	75		73		70-130	3		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
Bromoform	89		92		54-136	3		20
1,1,2,2-Tetrachloroethane	89		95		67-130	7		20
Benzene	110		110		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		100		64-130	0		20
Bromomethane	140	Q	130		39-139	7		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-07 Batch: WG1619519-3 WG1619519-4								
Chloroethane	170	Q	170	Q	55-138	0		20
1,1-Dichloroethene	110		120		61-145	9		20
trans-1,2-Dichloroethene	120		120		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	96		100		70-130	4		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	98		100		70-130	2		20
Methyl tert butyl ether	80		81		63-130	1		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	120		120		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	90		88		36-147	2		20
Acetone	98		110		58-148	12		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	96		100		59-130	4		20
2-Hexanone	73		77		57-130	5		20
Bromochloromethane	110		120		70-130	9		20
1,2-Dibromoethane	92		92		70-130	0		20
1,2-Dibromo-3-chloropropane	83		87		41-144	5		20
Isopropylbenzene	94		97		70-130	3		20
1,2,3-Trichlorobenzene	78		85		70-130	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-07 Batch: WG1619519-3 WG1619519-4								
1,2,4-Trichlorobenzene	84		88		70-130	5		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	86		98		56-162	13		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	96		94		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	87		89		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1620287-3 WG1620287-4								
Methylene chloride	96		96		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	96		98		70-130	2		20
Dibromochloromethane	97		98		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	100		99		62-150	1		20
1,2-Dichloroethane	97		96		70-130	1		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	92		95		67-130	3		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	89		92		70-130	3		20
Bromoform	89		91		54-136	2		20
1,1,2,2-Tetrachloroethane	95		91		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		96		70-130	4		20
Chloromethane	86		81		64-130	6		20
Bromomethane	47		52		39-139	10		20
Vinyl chloride	98		94		55-140	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1620287-3 WG1620287-4								
Chloroethane	86		83		55-138	4		20
1,1-Dichloroethene	97		95		61-145	2		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		97		70-130	3		20
1,3-Dichlorobenzene	100		98		70-130	2		20
1,4-Dichlorobenzene	100		96		70-130	4		20
Methyl tert butyl ether	92		96		63-130	4		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	94		100		58-148	6		20
Carbon disulfide	97		95		51-130	2		20
2-Butanone	92		97		63-138	5		20
4-Methyl-2-pentanone	80		82		59-130	2		20
2-Hexanone	80		86		57-130	7		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	94		87		41-144	8		20
Isopropylbenzene	100		91		70-130	9		20
1,2,3-Trichlorobenzene	98		92		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1620287-3 WG1620287-4								
1,2,4-Trichlorobenzene	92		87		70-130	6		20
Methyl Acetate	91		100		70-130	9		20
Cyclohexane	100		99		70-130	1		20
1,4-Dioxane	86		84		56-162	2		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	92		91		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		99		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 04:26
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	8.0	3.5	1
3,3'-Dichlorobenzidine	ND		ug/l	20	3.4	1
2,4-Dinitrotoluene	ND		ug/l	20	1.5	1
2,6-Dinitrotoluene	ND		ug/l	20	1.5	1
4-Chlorophenyl phenyl ether	ND		ug/l	8.0	3.2	1
4-Bromophenyl phenyl ether	ND		ug/l	8.0	2.5	1
Bis(2-chloroisopropyl)ether	ND		ug/l	8.0	7.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	20	6.0	1
Hexachlorocyclopentadiene	ND		ug/l	80	2.4	1
Isophorone	ND		ug/l	20	2.6	1
Nitrobenzene	ND		ug/l	8.0	2.6	1
NDPA/DPA	ND		ug/l	8.0	2.6	1
n-Nitrosodi-n-propylamine	ND		ug/l	20	3.1	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	12	6.0	1
Butyl benzyl phthalate	ND		ug/l	20	8.7	1
Di-n-butylphthalate	ND		ug/l	20	2.3	1
Di-n-octylphthalate	ND		ug/l	20	9.6	1
Diethyl phthalate	ND		ug/l	20	17.	1
Dimethyl phthalate	ND		ug/l	20	18.	1
Biphenyl	ND		ug/l	8.0	2.5	1
4-Chloroaniline	ND		ug/l	20	2.6	1
2-Nitroaniline	ND		ug/l	20	2.1	1
3-Nitroaniline	ND		ug/l	20	2.3	1
4-Nitroaniline	ND		ug/l	20	2.3	1
Dibenzofuran	3.8	J	ug/l	8.0	3.3	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	40	2.5	1
Acetophenone	6.3	J	ug/l	20	3.9	1
2,4,6-Trichlorophenol	ND		ug/l	20	2.0	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	8.0	1.6	1
2-Chlorophenol	ND		ug/l	8.0	1.6	1
2,4-Dichlorophenol	ND		ug/l	20	2.1	1
2,4-Dimethylphenol	ND		ug/l	20	4.4	1
2-Nitrophenol	ND		ug/l	40	1.8	1
4-Nitrophenol	ND		ug/l	40	4.6	1
2,4-Dinitrophenol	ND		ug/l	80	14.	1
4,6-Dinitro-o-cresol	ND		ug/l	40	22.	1
Phenol	ND		ug/l	20	5.2	1
2-Methylphenol	ND		ug/l	20	4.4	1
3-Methylphenol/4-Methylphenol	ND		ug/l	20	2.2	1
2,4,5-Trichlorophenol	ND		ug/l	20	1.5	1
Carbazole	ND		ug/l	8.0	3.0	1
Atrazine	ND		ug/l	40	6.9	1
Benzaldehyde	ND		ug/l	20	3.6	1
Caprolactam	ND		ug/l	40	5.1	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	20	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	71		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 12:41
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.62		ug/l	0.40	0.14	1
2-Chloronaphthalene	ND		ug/l	0.80	0.14	1
Fluoranthene	1.5		ug/l	0.40	0.15	1
Hexachlorobutadiene	ND		ug/l	2.0	0.14	1
Naphthalene	8.4		ug/l	0.40	0.17	1
Benzo(a)anthracene	0.09	J	ug/l	0.40	0.07	1
Benzo(a)pyrene	ND		ug/l	0.40	0.16	1
Benzo(b)fluoranthene	ND		ug/l	0.40	0.06	1
Benzo(k)fluoranthene	ND		ug/l	0.40	0.17	1
Chrysene	ND		ug/l	0.40	0.15	1
Acenaphthylene	2.1		ug/l	0.40	0.14	1
Anthracene	1.6		ug/l	0.40	0.14	1
Benzo(ghi)perylene	ND		ug/l	0.40	0.17	1
Fluorene	6.2		ug/l	0.40	0.15	1
Phenanthrene	12		ug/l	0.40	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.16	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.40	0.16	1
Pyrene	0.82		ug/l	0.40	0.16	1
2-Methylnaphthalene	2.6		ug/l	0.40	0.18	1
Pentachlorophenol	1.5	J	ug/l	3.2	0.88	1
Hexachlorobenzene	ND		ug/l	3.2	0.13	1
Hexachloroethane	ND		ug/l	3.2	0.12	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	72		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 06:25
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	56		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 12:57
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.12		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.06	J	ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	2.8		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.09	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.08	J	ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.09	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.04	1
Chrysene	0.07	J	ug/l	0.10	0.04	1
Acenaphthylene	0.07	J	ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.07	J	ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.11		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.08	J	ug/l	0.10	0.04	1
Pyrene	0.06	J	ug/l	0.10	0.04	1
2-Methylnaphthalene	0.22		ug/l	0.10	0.05	1
Pentachlorophenol	0.33	J	ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	62		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 07:13
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	20.		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	7.6		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	43.		ug/l	5.0	1.3	1
2-Methylphenol	4.4	J	ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	17.		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	7.0	J	ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	74		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 13:14
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.06	J	ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.20		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.05	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.04	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.06	J	ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	71		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 04:50
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	50		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 13:30
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.08	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	0.06	J	ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	48		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	55		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 06:49
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	1.1	J	ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	1.8	J	ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	1.4	J	ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	73		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 13:47
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.08	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.10	J	ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.04	J	ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.04	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	0.15		ug/l	0.10	0.04	1
Phenanthrene	0.06	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.08	J	ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	76		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 05:37
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	104		10-120
4-Terphenyl-d14	80		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 14:03
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.06	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	0.35	J	ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	85		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/31/22 05:14
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	64		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 14:20
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.05	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	0.33	J	ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	61		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/31/22 01:39
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1617542-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5
Hexachlorocyclopentadiene	ND		ug/l	20	0.61
Isophorone	ND		ug/l	5.0	0.66
Nitrobenzene	ND		ug/l	2.0	0.66
NDPA/DPA	ND		ug/l	2.0	0.65
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	2.2
Di-n-butylphthalate	ND		ug/l	5.0	0.58
Di-n-octylphthalate	ND		ug/l	5.0	2.4
Diethyl phthalate	ND		ug/l	5.0	4.3
Dimethyl phthalate	ND		ug/l	5.0	4.4
Biphenyl	ND		ug/l	2.0	0.64
4-Chloroaniline	ND		ug/l	5.0	0.65
2-Nitroaniline	ND		ug/l	5.0	0.52
3-Nitroaniline	ND		ug/l	5.0	0.57
4-Nitroaniline	ND		ug/l	5.0	0.58
Dibenzofuran	ND		ug/l	2.0	0.82
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62
Acetophenone	ND		ug/l	5.0	0.98
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49
p-Chloro-m-cresol	ND		ug/l	2.0	0.41

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/31/22 01:39
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1617542-1					
2-Chlorophenol	ND		ug/l	2.0	0.40
2,4-Dichlorophenol	ND		ug/l	5.0	0.53
2,4-Dimethylphenol	ND		ug/l	5.0	1.1
2-Nitrophenol	ND		ug/l	10	0.46
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	3.6
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4
Phenol	ND		ug/l	5.0	1.3
2-Methylphenol	ND		ug/l	5.0	1.1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38
Carbazole	ND		ug/l	2.0	0.76
Atrazine	ND		ug/l	10	1.7
Benzaldehyde	ND		ug/l	5.0	0.90
Caprolactam	ND		ug/l	10	1.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24		21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	52		41-149

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 12:24
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1617543-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/20/22 12:24
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/19/22 08:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07 Batch: WG1617543-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	45		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	55		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1617542-2 WG1617542-3								
Bis(2-chloroethyl)ether	49		51		40-140	4		30
3,3'-Dichlorobenzidine	56		56		40-140	0		30
2,4-Dinitrotoluene	70		71		48-143	1		30
2,6-Dinitrotoluene	70		74		40-140	6		30
4-Chlorophenyl phenyl ether	66		69		40-140	4		30
4-Bromophenyl phenyl ether	70		74		40-140	6		30
Bis(2-chloroisopropyl)ether	31	Q	33	Q	40-140	6		30
Bis(2-chloroethoxy)methane	48		53		40-140	10		30
Hexachlorocyclopentadiene	44		46		40-140	4		30
Isophorone	50		54		40-140	8		30
Nitrobenzene	54		57		40-140	5		30
NDPA/DPA	66		70		40-140	6		30
n-Nitrosodi-n-propylamine	51		51		29-132	0		30
Bis(2-ethylhexyl)phthalate	66		69		40-140	4		30
Butyl benzyl phthalate	66		68		40-140	3		30
Di-n-butylphthalate	66		69		40-140	4		30
Di-n-octylphthalate	66		68		40-140	3		30
Diethyl phthalate	66		71		40-140	7		30
Dimethyl phthalate	68		71		40-140	4		30
Biphenyl	63		68		40-140	8		30
4-Chloroaniline	48		44		40-140	9		30
2-Nitroaniline	66		66		52-143	0		30
3-Nitroaniline	43		42		25-145	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1617542-2 WG1617542-3								
4-Nitroaniline	61		64		51-143	5		30
Dibenzofuran	65		68		40-140	5		30
1,2,4,5-Tetrachlorobenzene	67		70		2-134	4		30
Acetophenone	57		61		39-129	7		30
2,4,6-Trichlorophenol	71		75		30-130	5		30
p-Chloro-m-cresol	64		69		23-97	8		30
2-Chlorophenol	58		62		27-123	7		30
2,4-Dichlorophenol	66		69		30-130	4		30
2,4-Dimethylphenol	51		59		30-130	15		30
2-Nitrophenol	60		64		30-130	6		30
4-Nitrophenol	38		39		10-80	3		30
2,4-Dinitrophenol	54		55		20-130	2		30
4,6-Dinitro-o-cresol	70		71		20-164	1		30
Phenol	26		25		12-110	4		30
2-Methylphenol	48		53		30-130	10		30
3-Methylphenol/4-Methylphenol	46		49		30-130	6		30
2,4,5-Trichlorophenol	74		74		30-130	0		30
Carbazole	64		65		55-144	2		30
Atrazine	61		68		40-140	11		30
Benzaldehyde	46		48		40-140	4		30
Caprolactam	13		13		10-130	0		30
2,3,4,6-Tetrachlorophenol	72		74		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1617542-2 WG1617542-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	38		39		21-120
Phenol-d6	25		26		10-120
Nitrobenzene-d5	54		58		23-120
2-Fluorobiphenyl	66		70		15-120
2,4,6-Tribromophenol	82		87		10-120
4-Terphenyl-d14	68		70		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1617543-2 WG1617543-3								
Acenaphthene	70		66		40-140	6		40
2-Chloronaphthalene	70		65		40-140	7		40
Fluoranthene	79		75		40-140	5		40
Hexachlorobutadiene	58		52		40-140	11		40
Naphthalene	67		62		40-140	8		40
Benzo(a)anthracene	87		85		40-140	2		40
Benzo(a)pyrene	85		81		40-140	5		40
Benzo(b)fluoranthene	90		84		40-140	7		40
Benzo(k)fluoranthene	75		72		40-140	4		40
Chrysene	71		65		40-140	9		40
Acenaphthylene	75		71		40-140	5		40
Anthracene	76		72		40-140	5		40
Benzo(ghi)perylene	83		79		40-140	5		40
Fluorene	75		71		40-140	5		40
Phenanthrene	71		68		40-140	4		40
Dibenzo(a,h)anthracene	92		88		40-140	4		40
Indeno(1,2,3-cd)pyrene	94		88		40-140	7		40
Pyrene	80		75		40-140	6		40
2-Methylnaphthalene	69		64		40-140	8		40
Pentachlorophenol	61		55		40-140	10		40
Hexachlorobenzene	58		57		40-140	2		40
Hexachloroethane	64		57		40-140	12		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07 Batch: WG1617543-2 WG1617543-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		45		21-120
Phenol-d6	35		31		10-120
Nitrobenzene-d5	75		69		23-120
2-Fluorobiphenyl	67		62		15-120
2,4,6-Tribromophenol	81		75		10-120
4-Terphenyl-d14	78		73		41-149

METALS

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
 Client ID: MWS-02
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00171		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:19	EPA 3005A	1,6020B	SV
Chromium, Total	0.00222		mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:19	EPA 3005A	1,6020B	SV
Lead, Total	0.00118		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:19	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02
 Client ID: MWS-18A
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00342		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:24	EPA 3005A	1,6020B	SV
Chromium, Total	0.00158		mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:24	EPA 3005A	1,6020B	SV
Lead, Total	0.00197		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:24	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03
 Client ID: MWS-18C
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00570		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:29	EPA 3005A	1,6020B	SV
Chromium, Total	0.1236		mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:29	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:29	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
 Client ID: MWS-19A
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00316		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:35	EPA 3005A	1,6020B	SV
Chromium, Total	0.00058	J	mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:35	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:35	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05
 Client ID: MWS-19B
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.01186		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:40	EPA 3005A	1,6020B	SV
Chromium, Total	0.1102		mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:40	EPA 3005A	1,6020B	SV
Lead, Total	0.04680		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:40	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
 Client ID: MWS-20A
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00429		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:45	EPA 3005A	1,6020B	SV
Chromium, Total	0.01880		mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:45	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:45	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
 Client ID: MWS-20B
 Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
 Date Received: 03/16/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00293		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 23:51	EPA 3005A	1,6020B	SV
Chromium, Total	0.00089	J	mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 23:51	EPA 3005A	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 23:51	EPA 3005A	1,6020B	SV



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1616851-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/24/22 10:36	03/24/22 22:04	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/24/22 10:36	03/24/22 22:04	1,6020B	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/24/22 10:36	03/24/22 22:04	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1616851-2								
Arsenic, Total	95		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Lead, Total	96		-		80-120	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07			QC Batch ID: WG1616851-3		WG1616851-4	QC Sample: L2213802-05		Client ID: MS Sample				
Arsenic, Total	0.0009	0.12	0.1204	100		0.1182	98		75-125	2		20
Chromium, Total	0.0004J	0.2	0.2061	103		0.2050	102		75-125	1		20
Lead, Total	0.00047J	0.53	0.5197	98		0.5102	96		75-125	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-07			QC Batch ID: WG1616851-7		WG1616851-8	QC Sample: L2214013-01		Client ID: MS Sample				
Arsenic, Total	0.0003J	0.12	0.1130	94		0.1136	95		75-125	1		20
Chromium, Total	0.0004J	0.2	0.2116	106		0.2149	107		75-125	2		20
Lead, Total	ND	0.53	0.5250	99		0.5336	101		75-125	2		20

INORGANICS & MISCELLANEOUS

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-01
Client ID: MWS-02
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 13:15
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.276		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:14	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-02
Client ID: MWS-18A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.338		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:15	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-03
Client ID: MWS-18C
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.312		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:16	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-04
Client ID: MWS-19A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:10
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.107		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:17	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-05
Client ID: MWS-19B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 14:40
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.418		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:18	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-06
Client ID: MWS-20A
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 10:25
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.055		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:19	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

SAMPLE RESULTS

Lab ID: L2213694-07
Client ID: MWS-20B
Sample Location: 1951 HAMBURG TURNPIKE

Date Collected: 03/14/22 11:20
Date Received: 03/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.058		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 09:24	1,9010C/9012B	CS



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG1619233-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/24/22 13:05	03/25/22 08:51	1,9010C/9012B	CS

Lab Control Sample Analysis Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG1619233-2 WG1619233-3								
Cyanide, Total	102		99		85-115	3		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1619233-4 WG1619233-5 QC Sample: L2213694-06 Client ID: MWS-20A												
Cyanide, Total	0.055	0.2	0.266	105		0.270	107		80-120	1		20

Project Name: ATP GWS**Lab Number:** L2213694**Project Number:** T0071-021-222**Report Date:** 04/06/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213694-01A	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-01B	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-01C	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-01D	Plastic 250ml HNO3 preserved	B	<2	<2	4.1	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-01E	Plastic 250ml NaOH preserved	B	>12	>12	4.1	Y	Absent		TCN-9010(14)
L2213694-01F	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-01G	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-02A	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-02B	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-02C	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-02D	Plastic 250ml HNO3 preserved	C	<2	<2	3.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-02E	Plastic 250ml NaOH preserved	C	>12	>12	3.8	Y	Absent		TCN-9010(14)
L2213694-02F	Amber 1000ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-02G	Amber 1000ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-03A	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-03B	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-03C	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-03D	Plastic 250ml HNO3 preserved	C	<2	<2	3.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-03E	Plastic 250ml NaOH preserved	C	>12	>12	3.8	Y	Absent		TCN-9010(14)
L2213694-03F	Amber 1000ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-03G	Amber 1000ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-04A	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)

Project Name: ATP GWS**Lab Number:** L2213694**Project Number:** T0071-021-222**Report Date:** 04/06/22**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213694-04B	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-04C	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2213694-04D	Plastic 250ml HNO3 preserved	C	<2	<2	3.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-04E	Plastic 250ml NaOH preserved	C	>12	>12	3.8	Y	Absent		TCN-9010(14)
L2213694-04F	Amber 1000ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-04G	Amber 1000ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-05A	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-05B	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-05C	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-05D	Plastic 250ml HNO3 preserved	B	<2	<2	4.1	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-05E	Plastic 250ml NaOH preserved	B	>12	>12	4.1	Y	Absent		TCN-9010(14)
L2213694-05F	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-05G	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-06A	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-06B	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-06C	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-06D	Plastic 250ml HNO3 preserved	B	<2	<2	4.1	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-06E	Plastic 250ml NaOH preserved	B	>12	>12	4.1	Y	Absent		TCN-9010(14)
L2213694-06F	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-06G	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-07A	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-07B	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-07C	Vial HCl preserved	B	NA		4.1	Y	Absent		NYTCL-8260-R2(14)
L2213694-07D	Plastic 250ml HNO3 preserved	B	<2	<2	4.1	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2213694-07E	Plastic 250ml NaOH preserved	B	>12	>12	4.1	Y	Absent		TCN-9010(14)
L2213694-07F	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-07G	Amber 1000ml unpreserved	B	7	7	4.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2213694-08A	Vial HCl preserved	B	NA		4.1	Y	Absent		ARCHIVE()

Project Name: ATP GWS
Project Number: T0071-021-222

Serial_No:04062213:42
Lab Number: L2213694
Report Date: 04/06/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2213694-08B	Vial HCl preserved	B	NA		4.1	Y	Absent		ARCHIVE()

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: ATP GWS
Project Number: T0071-021-222

Lab Number: L2213694
Report Date: 04/06/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

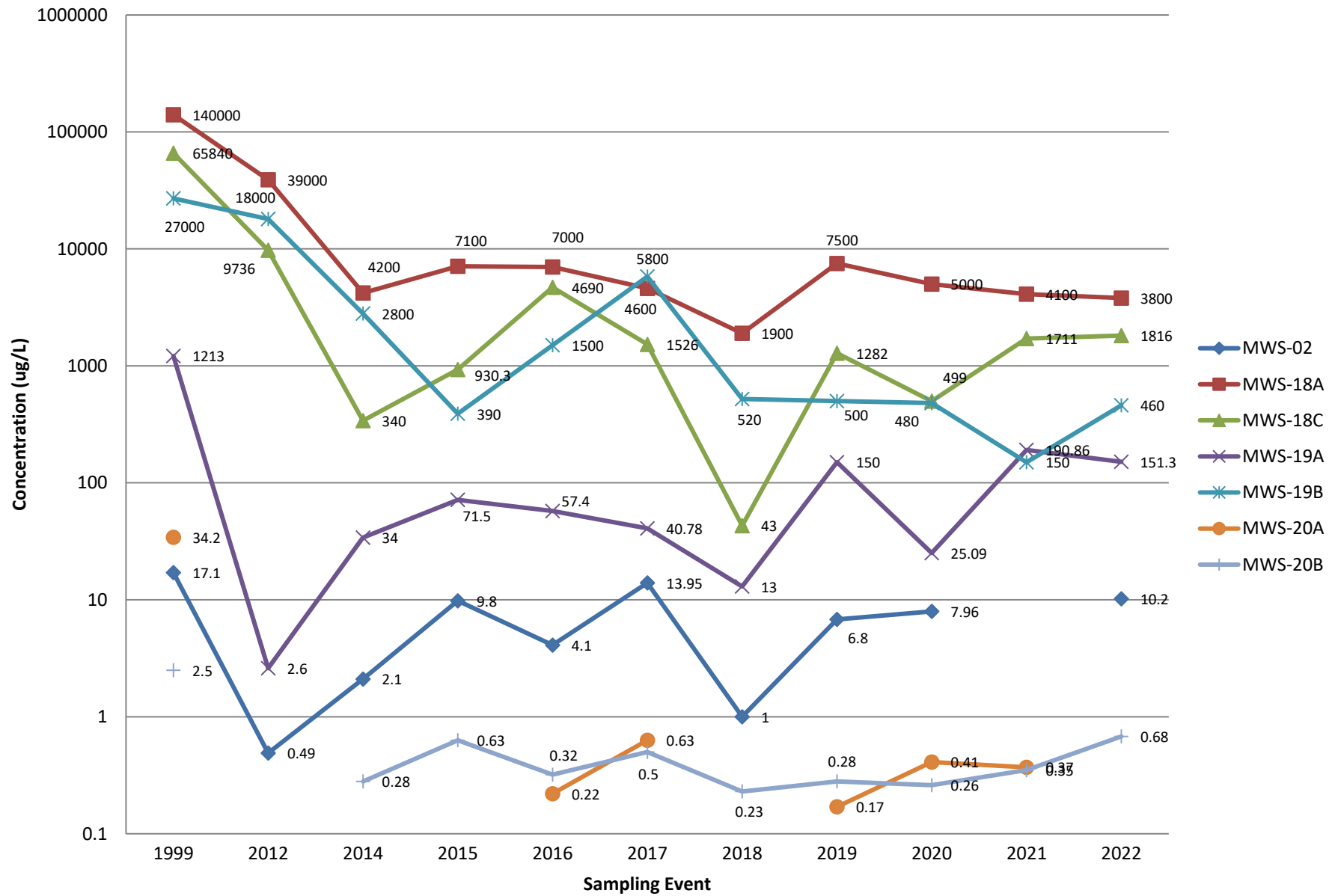
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 1 of 1		Date Rec'd in Lab 3/17/22		ALPHA Job # 02213694		
		Project Information Project Name: ATP GWS Project Location: 1951 Hamburg Turnpike Project # T0071-021-222 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☒ Other		Billing Information ☒ Same as Client Info PO #				
Client Information Client: Benchmark Environmental Address: 2558 Hamburg Turnpike, Ste 300 Buffalo, NY 14218 Phone: 716-856-0599 Fax: tforbes@benchmarkturnkey.com Email: tforbes@benchmarkturnkey.com		Project Manager: Candace Fox ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☒ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: NA				
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Total Metals: arsenic, barium, chromium, lead Please specify Metals or TAL.		ANALYSIS TCL VOC Metals, Total* TCL SVOC + Cyanide		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	Metals, Total*	TCL SVOC +	Cyanide	Sample Specific Comments
13694-01	MWS-02	3-14-22	1315	Water	CEH	x	x	x	x	7
-02	MWS-18A	3-15-22	1430	Water	CEH	x	x	x	x	7
-03	MWS-18C	3-15-22	1440	Water	CEH	x	x	x	x	7
-04	MWS-19A	3-15-22	1110	Water	CEH	x	x	x	x	7
-05	MWS-19B	3-14-22	1440	Water	CEH	x	x	x	x	7
-06	MWS-20A	3-14-22	1025	Water	CEH	x	x	x	x	7
-07	MWS-20B	3-14-22	1120	Water	CEH	x	x	x	x	7
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.
A = None		P = Plastic		Mansfield: Certification No: MA015		V		P	P	
B = HCl		A = Amber Glass				Preservative		H	C	
C = HNO ₃		V = Vial						D	E	
D = H ₂ SO ₄		G = Glass								
E = NaOH		B = Bacteria Cup								
F = MeOH		C = Cube								
G = NaHSO ₄		O = Other								
H = Na ₂ S ₂ O ₃		E = Encore								
K/E = Zn Ac/NaOH		D = BOD Bottle								
O = Other										
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time		
		Charles Hochman		3-15-22 11530		JAY AAL		3/16/22 1200		
		JAY AAL		3/16/22 1250		JAY AAL		3/17/22 0020		

ATTACHMENT 3

CONCENTRATION PLOT

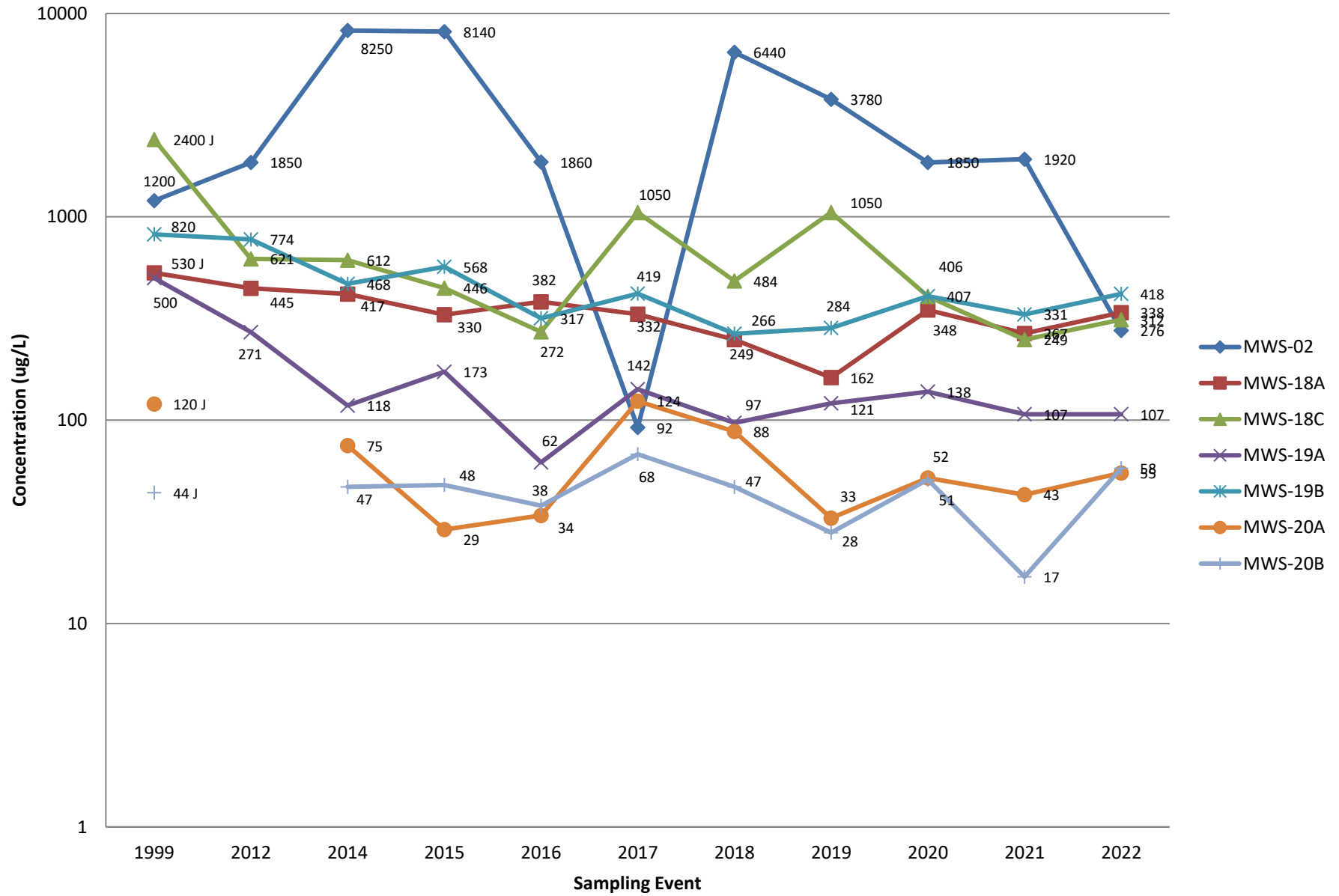
ATP AREA WELLS

Total BTEX



ATP AREA WELLS

Cyanide



ATTACHMENT 4

POST-CLOSURE FIELD INSPECTION REPORT

Field Inspection Report Post-Remedial Operation, Maintenance & Monitoring Plan

Property Name: ATP SWMU Group ECM Project No.:
 Client: Tecumseh Redevelopment, Inc.
 Property Address: 2303 Hamburg Turnpike City, State: Lackawanna, NY Zip Code: 14218
 Preparer's Name: Brock Greene Date/Time: 12-8-22

CERTIFICATION

The results of this inspection were discussed with the Site Manager. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Action Form has been completed. Proper implementation of these corrective actions have been discussed with the Site Manager, agreed upon, and scheduled.

Preparer / Inspector: Brock Greene Date: 12-8-22

Signature: [Signature]

Next Scheduled Inspection Date: Nov 2023

ATP Containment Cell and Pretreatment Building Access

- | | | | |
|--|---|--|------------------------------|
| 1. Is the access road in need of repair? | ☐ yes | ☒ no | ☐ N/A |
| 2. Sufficient signage posted (No Trespassing)? | ☒ yes | ☐ no | ☐ N/A |
| 3. Has there been any noted or reported trespassing? | ☐ yes | ☒ no | ☐ N/A |

Please note any irregularities/ changes in site access and security: None

Final Surface Cover / Vegetation

The integrity of the vegetative soil cover or other surface coverage (e.g., slag) over the entire Site must be maintained. The following documents the condition of the above.

1. Final Cover is in Place and in good condition? ☒ yes ☐ no ☐ N/A

Cover consists of (mainly): Vegetative soil cover

- | | | | |
|---|------------------------------|--|------------------------------|
| 2. Evidence of erosion? | ☐ yes | ☒ no | ☐ N/A |
| 3. Cracks visible in slag perimeter road? | ☐ yes | ☒ no | ☐ N/A |
| 4. Evidence of distressed vegetation/turf? | ☐ yes | ☒ no | ☐ N/A |
| 5. Evidence of unintended traffic and/or rutting? | ☐ yes | ☒ no | ☐ N/A |
| 6. Evidence of uneven settlement and/or ponding? | ☐ yes | ☒ no | ☐ N/A |

Field Inspection Report

Post-Remedial Operation, Maintenance & Monitoring Plan

Final Surface Cover / Vegetation

7. Damage to any surface coverage? ☐ yes ☒ no ☐ N/A
8. Extraction Well access roads (3) in stable condition? ☒ yes ☐ no ☐ N/A

Please provide more information below.

Cover is in good condition

Storm Water Pond

1. Is there water accumulation in the pond? ☐ yes ☒ no ☐ N/A
2. Is there sign of erosion or loss of oversized slag on sideslopes of pond? ☐ yes ☒ no ☐ N/A
3. Are the inlet or outlet structures/pipes clogged with debris? ☐ yes ☒ no ☐ N/A
4. Is there sign of erosion on the emergency spillway and the down chute to Smokes Creek? ☐ yes ☒ no ☐ N/A

If yes to any questions 2 through 4 above, please provide more information below.

Gas Vent Monitoring and Maintenance

- Are there signs of stressed vegetation around gas vents? ☐ yes ☒ no ☐ N/A
- Is gas vent currently intact and operational? ☒ yes ☐ no ☐ N/A
- Has regular maintenance and monitoring been documented and enclosed or referenced? ☐ yes ☐ no ☒ N/A

No maintenance has been required, vent remains intact and free of blockage

Field Inspection Report Post-Remedial Operation, Maintenance & Monitoring Plan

Conveyance Piping Leak Detection

Are there signs of a groundwater/leachate leak in the cleanout manholes?

☐ yes

☒ no

☐ N/A

Is there evidence of a leak having occurred before this inspection date?

☐ yes

☒ no

☐ N/A

This space for Notes and Comments

Please include the following Attachments:

1. Photographs
-

ITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: ATP Treatment Building (Looking north)

Photo 2: ATP control Panels (Looking southeast)

Photo 3: ATP Treatment Building (Looking west)

Photo 4: ATP Treatment Building (Looking north)

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: East side of containment cell (Looking south)

Photo 6: East side of containment cell (Looking north)

Photo 7: West side of containment cell (Looking north)

Photo 8: West side of containment cell (Looking south)

SITE PHOTOGRAPHS

Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 9: Dry stormwater pond (Looking northwest)

Photo 10: Outlet structure for the stormwater pond (Looking north)

Photo 11: Inlet structure for the stormwater pond (Looking north)

Photo 12: Gas vent at the top of the containment cell (Looking north)